

**THE UNIVERSITY OF WYOMING**

**BOARD OF TRUSTEES' REPORT**  
**AND SUPPLEMENTAL MATERIALS**

**July 13-16, 2021**

**The final report can be found on the University of Wyoming Board of Trustees Website at <http://www.uwyo.edu/trustees/>  
University of Wyoming Mission Statement (July 2017)**

We honor our heritage as the state's flagship and land-grant university by providing accessible and affordable higher education of the highest quality; rigorous scholarship; the communication and application of knowledge; economic and community development; and responsible stewardship of our cultural, historical and natural resources.

In the exercise of our primary mission to promote learning, we seek to provide academic and co-curricular opportunities that will:

- Graduate students who have experienced the frontiers of scholarship and creative activity and who are prepared for the complexities of an interdependent world;
- Cultivate a community of learning energized by collaborative work among students, faculty, staff and external partners.
- Nurture an environment that values and manifests diversity, internationalization, free expression, academic freedom, personal integrity and mutual respect; and
- Promote opportunities for personal health and growth, physical health, athletic competition and leadership development for all members of the university community.

As Wyoming's only public university, we are committed to scholarship, outreach and service that extend our human talent and technological capacity to serve the people in our communities, our state, the nation and the world.

**TRUSTEES OF THE UNIVERSITY OF WYOMING AGENDA**  
**July 13-16, 2021**  
**Eastern Wyoming College**  
**Torrington, Wyoming**

*Note: Only topics that have support materials provided in advance of the meeting are contained within this report. Topics that will be discussed with only a verbal report do not have information included.*

**WORK SESSIONS**

Restructuring UW for Wyoming’s Future – Seidel et al .....5  
Academic and Student Affairs Committee – Sullivan  
Consideration and Action: Notice of Intent: School of Computing – Carman.....6  
Facilities Contracting Committee – McKinley  
Consideration and Action: Design Consultant Contract Amendment, College of Law Expansion and Renovation – Mai.....43  
Consideration and Action: Contract Approval, Central Energy Plant, Cooling Tower and Sump Pump Upgrades – Mai .....45  
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Consideration and Action: Bus Maintenance Facility Revised Budget and GMP – Mai .....48  
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Consideration and Action: Trustees Meeting Schedule for 2023 and 2024 .....51  
Review and Consideration: Trustees Annual Schedule of Items to Approve, Discuss, or Report ....54

**Business Meeting**

**Reports**

ASUW

Staff Senate

Faculty Senate

**Committee of the Whole**

**Regular Business**

**Trustee Committees**

*[Note: Trustee committees are not scheduled to meet at the July 2021 UW Board of Trustees meeting. Reports from the Facilities Contracting Committee, and the Academic and Student Affairs Committee will take place on Wednesday, July 14, 2021]*

**Liaison to Other Boards**

*[Note: Committees of the Board will provide reports during the regular work sessions and will not have a formal report to provide during the Business*

*Meeting. Liaisons will provide a written report prior to the regular July 13-16, 2021, Business Meeting.]*

Proposed Items for Discussion and Action:

- I. Approval of Agreements, Contracts, and Procurements – Evans
- II. Contracts and Grants – Jewell/Hulme .....61
- III. WWAMI Appeal – Jones, Evans .....73
- IV. UW Regulation 6-9 (Project Development Policy and Procedure for UW Capital Construction Projects) – Brown/Evans.....75
- V. Real Estate – Mai

Information Only Items: *[no action, discussion or work session]*

- Contracts and Procurement Report (per UW Regulation 7-2) – Evans .....92
- Capital Construction Report – McKinley/Mai .....99
- Foundation Monthly Giving Report – Blalock

New Business

Date of Next Meeting: August 11, 2021 (conference call)

Adjourn Meeting

**AGENDA ITEM TITLE: Restructuring UW for Wyoming's Future - Seidel, Carman, Allen, Shader, Koprowski, Farkas, Alexander, Theobald, Jewell**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

No [Regular Business]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University

EXECUTIVE SUMMARY:

Pivoting to the realities of Wyoming's future is the most critical priority for UW. A once-in-a-generation combination of headwinds - reductions in state funding, the changing landscape of the higher education sector, post-pandemic shifts in consumer and labor preferences, and fundamental changes to the underlying bedrock of Wyoming's economy - point to the need for a bold vision for UW. This agenda item will focus on the rationale for this vision and the foundational building blocks for that vision, including the Wyoming Innovation Partnership (WIP), the School of Computing (Notice of Intent is included as additional agenda item), the Center for Entrepreneurship and Innovation, and the Wyoming Outdoor Recreation, Tourism, and Hospitality (WORTH) Initiative, building on the ongoing initiatives for UW (TEI, Science Initiative, and Tier One Engineering). We will also discuss the proposed reorganizations, consolidations, reductions, and discontinuances proposed under UW Regulation 2-13, which the Board will officially review and approve, disapprove, or modify the results of in November 2021.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

N/A

WHY THIS ITEM IS BEFORE THE BOARD:

Information item.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:

N/A

**AGENDA ITEM TITLE: Notice of Intent, School of Computing - Carman**

**SESSION TYPE:**

- Work Session  
 Education Session  
 Information Item  
 Other:  
[Committee of the Whole – Items for Approval]

**APPLIES TO STRATEGIC PLAN:**

- Yes (select below):  
 Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University  
 No [Regular Business]

*Attachments are provided with the narrative.*

**EXECUTIVE SUMMARY:**

The School of Computing (SoC) is envisioned to be a statewide asset led by the University with statewide and national impacts and global reach. It will provide Wyoming with agile and ethical computing professionals, alongside enhancing digital competency in an interdisciplinary fashion. It will also provide a hub for:

- Computational research, education, and engagement, providing academic excellence in teaching, intellectual distinction in research, and transformative innovation for computationally intensive entrepreneurship. It will champion interdisciplinarity across campus by fusing computation, digital, and data science curricula across all domains.
- Students, faculty, staff, community and state, industrial and academic partners to leverage corporate and knowledge partnerships to unite learners, educators, entrepreneurs, and stakeholders, and create a sustainable, robust digital ecosystem.
- Stewardship, support, and development of digital skills and literacy and computational thinking for all. It will nurture computing curiosity across disciplines and backgrounds, and capitalize on emerging innovations for teaching, research, and economic diversification.

The SoC will provide the organizational infrastructure and emphasis to accelerate the growth and impact of computing, AI, and data science at UW across research, teaching, entrepreneurship, and engagement. While the vision is for the SoC to be the focal point of computing leadership and activity at UW, the aim is to achieve this by integration and collaboration with a broad set of other units including all academic departments and the libraries, student success programs and discovery programs. Research indicates that computing is different from other departments in science or engineering; it is pervasive across a university, is multidisciplinary requiring potentially broad hiring, will increase external funding, and requires university support at the college or school level. This novel organizational structure will ensure that computing and digital literacy becomes pervasive across all disciplines.

**PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:**

None.

**WHY THIS ITEM IS BEFORE THE BOARD:**

University of Wyoming Regulation 2-119 requires that the Board approve all new degree programs and lays out the process for that approval.

**ACTION REQUIRED AT THIS BOARD MEETING:**

Consideration for approval of the Notice of Intent for the School of Computing.

**PROPOSED MOTION:**

“I move that the Notice of Intent for the School of Computing be approved.”

**PRESIDENT’S RECOMMENDATION:**

The President recommends approval of the Notice of Intent.

## Notice of Intent to the Board of Trustees

### School of Computing

### July 2021

#### Preface

This notice concerns the creation of a School of Computing (SoC), with associated initial academic programs and curricula. Two recent reports describe the motivation, context and plans for the new school. The Digital Pillar Report<sup>1</sup> frames the discussion for UW to become more digital and identifies the need for a campus-wide program to provide computing experiences for all students. The SoC will be the champion for such a program and work with Academic Affairs to embed it in the University Study Program. The second report, provided as an attachment, is the Preliminary Plan for a School of Computing that describes the vision, goals, structure of the school and provides a draft budget plan.

#### Proposed Academic Programs

The SoC is envisioned to house three academic programs: a Bachelor of Science Degree in Computing (with multiple tracks), a Masters degree in computing; and a PhD degree in computing. Initially, the graduate curricula will be operated using existing programs in the ongoing Interdisciplinary Graduate Minor in Scientific Computing. Thus, much of this document will focus on the proposed BS degree in Computing. This will be a multi-track degree primarily delivered on-campus with online and hybrid components utilized as appropriate and beneficial to broaden impact across Wyoming. Ultimately the BS degree will include additional tracks or minors in partnerships with other programs.

#### Summary and Rationale

The School of Computing is envisioned to be a statewide asset led by the University and in collaboration with community college partners. The SoC will have national impact and global reach, providing Wyoming and the world with agile and ethical computing professionals, alongside enhancing digital competency in an interdisciplinary fashion. The SoC will also provide a hub for:

- Students, faculty, staff, community and state, industrial and academic partners to leverage corporate and knowledge partnerships to unite learners, educators, entrepreneurs, and stakeholders, and create a sustainable, robust digital ecosystem for Wyoming.
- Stewardship, support, and development of digital skills and literacy and computational thinking for all. It will nurture computing curiosity across disciplines and backgrounds, and capitalize on emerging innovations for teaching, research, and economic diversification.
- Computational education, engagement and research, providing academic excellence in teaching, transformative innovation for computationally intensive entrepreneurship, and intellectual distinction in research. The SoC will champion interdisciplinarity by fusing computation, digital, and data science curricula across all domains.

Many universities have recognized that computing is significantly different from other departments in

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<sup>1</sup> [http://www.uwyo.edu/acadaffairs/\\_files/docs/dpt\\_report\\_05-2021.pdf](http://www.uwyo.edu/acadaffairs/_files/docs/dpt_report_05-2021.pdf)

science or engineering; computing is pervasive across a university, is multidisciplinary requiring potentially broad hiring, will increase external funding, and requires university support at the college or school level (see for example <https://cra.org/resources/creating-institutional-homes-for-computing/>). The proposed organizational structure will ensure that computing and digital literacy becomes pervasive across all disciplines at UW and provides Wyoming with a tech-savvy workforce.

The SoC will provide organizational infrastructure and emphasis to accelerate the growth and impact of computing, artificial intelligence (AI), and data science at UW across research, teaching, entrepreneurship, and engagement. While the vision is for the SoC to be the focal point of computing leadership and activity at UW, the aim is to achieve this by integration and collaboration with a broad set of other units including all academic departments and the libraries, student success programs and discovery programs.

The SoC will be the primary administrative center for the Digital Pillar and work to accomplish its goals. Cooperating and collaborating with UW units with computer expertise already present, such as the College of Engineering and Applied Science, the Mathematics and Statistics department, and the Data Science Center, to name a few, it will work to achieve the transformation of digital education at UW.

The staffing of the program will optimally involve joint appointments, research professors and research scientists, visiting and exchange positions, and adjunct appointments.

Two important SoC activities are:

- **Knowledge transfer, exchange, and partnership** to catalyze internal and external collaborations. For example, a department may wish to support development of a new class; a center might seek SoC expertise; collaborative research grants could be sought using existing research computing infrastructure; and corporate partners could participate in an employment exchange program.
- **Undergraduate and Graduate level degree programs and micro-credentials:** The SoC will be the nexus of computing education. More details on long-range plans for these are below.

## Academic Content and Outline of Anticipated Curriculum and Learning Outcomes

The SoC will produce professionals fluent in computing and digital competencies. UW graduates interacting with the SoC via interdisciplinary initiatives with departments will benefit from knowledge and experience of the application of computing in their chosen domain, equipping them to be perceptive and cognizant graduates with experience in innovative applications of computing – and thus competitive in the workplace. Specific outcomes for the BS degree are (SoC Preliminary Plan p.6 and pp.12-13):

- **Outcome 1 – Communication:** Students will be able to communicate in written and oral forms in such a way as to demonstrate their ability to work with a variety of stakeholders, and to present information clearly, logically, and critically.
- **Outcome 2 – Application:** Students will be able to utilize and modify state-of-the-art computing tools and concepts to explore and analyze disciplinary problems
- **Outcome 3 – Coding:** Students will be able to code efficient programs on their own to model phenomena.
- **Outcome 4 - Depth of Knowledge:** In a selected track students will demonstrate a depth of knowledge appropriate to graduate study and/or lifelong learning in that area. Students

should be able to read for understanding materials in that area beyond those assigned in coursework.

- **Outcome 5 - Preparation for Career and Further Education:** Students will be prepared for a career in industry, government agencies or non-profits or for graduate study in scientific or technical fields.

## Description of Curricula

**Engagement and Microcredentials:** The SoC will lead a statewide program of computing engagement by coordinating publicly facing existing UW offerings, such as digital badges from the Innovation Wyrkshop and short courses in 360-degree capture in the 3D visualization Center, the Coe Student Innovation Center public activities, and digital classes such as Tableau Public Workshops.

**Digital for All:** UW undergraduate students will learn that digital and computational methods/tools/approaches are becoming increasingly part of all disciplines of knowledge and aspects of life. At a general level, they should be exposed to the variety of ways that digital tools can be used to accomplish tasks—many of them new tasks never before possible—in areas from medicine to art and music to engineering and society--and gain introductory experience in using them. Students should also learn how to analyze the human, social and scientific impacts the existence and use of these tools bring. At a specific level, they should learn in greater detail and expertise how to use the digital tools available in their fields of study and understand the theory of how digital approaches and computational methods will change their fields in the future.

These curricular goals can be accomplished by placing digital education (including computational approaches) into the undergraduate experience in the following ways.

- Creation of a digital course requirement in the University Studies Program for all students
- Create different digital/computational groups within UW's Living Learning Community.
- Provide Freshman Seminars about digital and computational approaches within different disciplines or as they apply to different interdisciplinary questions.
- Design four-course certificates and six-course minors open to all students for cross-disciplinary skill learning. These could be in areas such as 3D modeling, coding skills, analysis of society and the internet, GIS, and blockchain.
- Help organize majors to include digital and computation components in disciplines across the campus. Whole new majors could be developed as well.

**Bachelors and Graduate Programs:** The SoC will establish bachelors, MS and PhD degrees that are tied to producing students with a broad range of interests with the needed 21st century skills to use computing in their chosen careers. The first degree to be built out will be the bachelor's degree. Initially the existing Interdisciplinary Minor in Scientific Computing will be evolved and utilized as the program for SoC-affiliated graduate students. The MS and PhD programs will be built out in Phase 2/year 3.

The bachelor's degree in computing will include courses in mathematics and statistics, machine learning, data analysis and management, algorithms, modeling and simulations, game theory, and of course programming/coding. SoC will work with other departments to create interdisciplinary majors. The computing major will differ in organization and emphasis from the present Computer Science and Computer Engineering degrees, complementing them rather than competing. The SoC Preliminary Plan (pp.13-18) discusses the relationship with existing curricula.

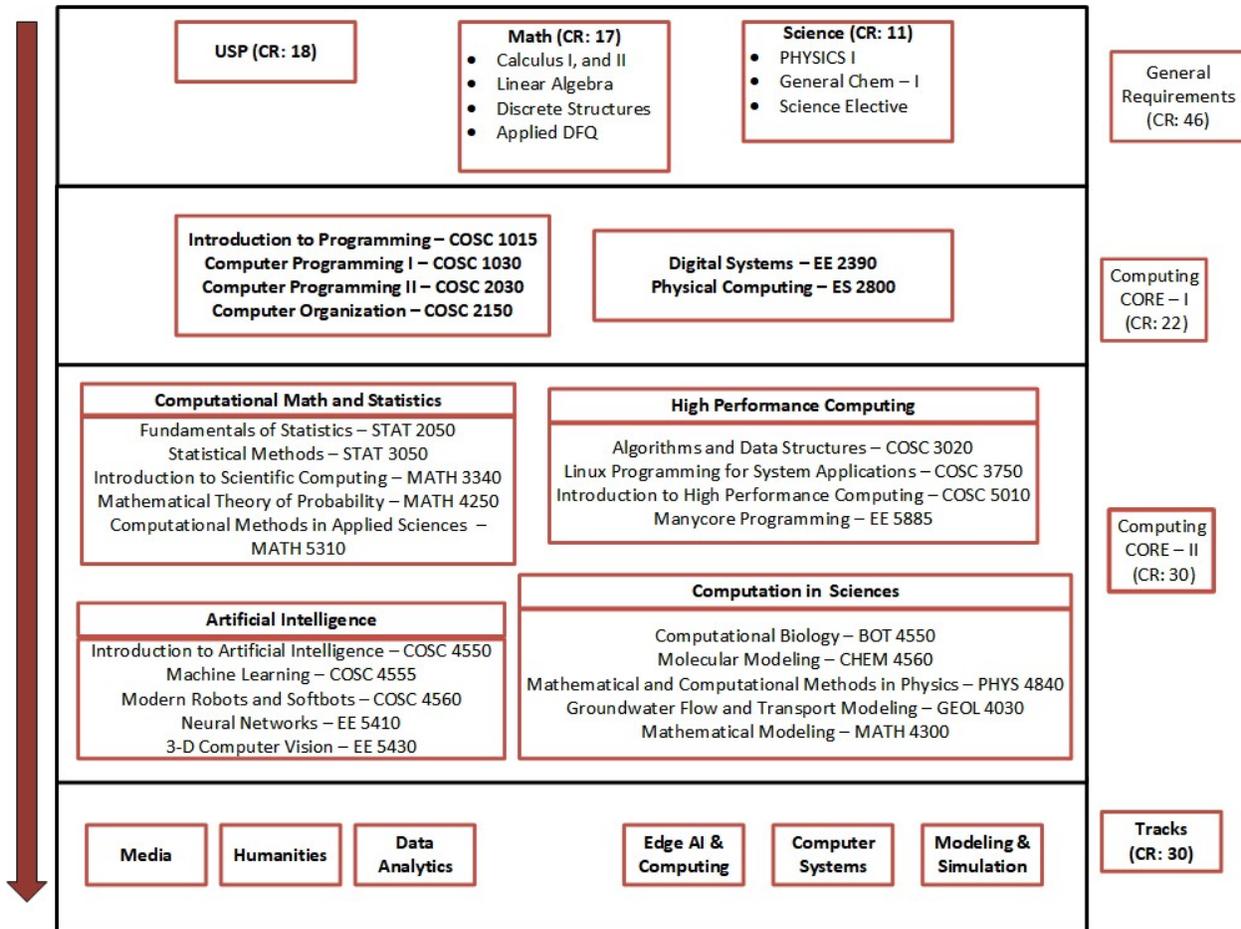


Figure 1: Tentative Bachelor's Degree in Computing with Example Tracks

The major will be designed with four course areas (see Figure 1):

- General Requirements: 46 credits:** Math, Science and University Studies.
- Computing Core I: 22 credits:** Introductory level courses currently offered by the Computer Science and ECE departments in programming, computer organization, digital systems, and physical computing.
- Computing Core II: 30 credits:** Four modules of focus, from which students take two. These are: Computational Math and Statistics, High Performance Computing, Artificial Intelligence and Computation in Sciences. These are upper-level courses, and which are currently offered in various departments across UW.
- Concentration Tracks: 30 credits:** Initially these will be computation tracks (Edge AI, Computer Systems, Modeling and Simulation, Data Analytics). Interdisciplinary concentrations will be developed with collaborating departments (e.g. archaeology, history, art, music, philosophy, environmental science, biology).

Additionally, the SoC would provide, or partner in providing, short courses/boot camps for various stakeholders (e.g., INBRE short-courses for computing in the biosciences at Wyoming's community Colleges, boot-camps for incoming graduate students on computing and data analytics, Software Carpentry course for students and faculty, and software engineers at Wyoming agencies.). The SoC will

also partners with companies such as NVidia and IBM to offer workshops on computing software and hardware architectures.

Within 5 years of graduation SoC Computing program alumnae will impact the local, national, and global communities by:

- Enhancing their company's or agency's performance through the use of new technologies and computing capabilities
- Enabling stakeholders to use computing to analyze issues of importance
- Becoming the tech-savvy workforce demanded by Wyoming's growing technology sector
- Catalyzing innovation and new insights.

## Obtaining Market Analysis of Anticipated Student Demand and Enrollment and Evaluation and Analysis of Post-graduation Employment Market Demand

Information from the Gray Associates Program Evaluation System (student and employer demand trends) will be used for Market Analysis. We will also use EAB student data and Emsi labor market data.

## Timeline and Phased Roll-out Plan

A detailed five year/two-phase plan for the roll-out of the SoC and its associated programs is given in Pages 21-29 of the SoC Preliminary Plan. At the end of five years the plan targets having the following levels of personnel and programs.

- Dean
- 2 Associate Deans (one devoted to curricula, Digital for All efforts, and programs with community colleges, and one devoted to industry and research lab partnerships and workforce and economic development)
- 1 business manager, 1 office manager, 1 workforce development lead, 1 special projects lead
- 1 joint CWC-UW Computing position
- 21 faculty (about 25% existing faculty, remaining will be joint hires)
- 4 research scientists
- 27 graduate assistants.
- Operating budget
- Start-up funds
- Visiting faculty program
- Computing Scholars Program for undergraduates

Total projected costs at the end of year 5 are \$9.5 M per year. Year by year, item by item projected costs are provided in detail in the SoC Preliminary Plan.

## Projected Revenue

The SoC will require state, philanthropic, and corporate support, along the lines of the UW School of Energy Resources or the Center of Innovation for Flow through Porous Media. Lining up potential

private and corporate support has begun and will be part of the Foundation’s campaign to support the four pillars: make UW more digital, more interdisciplinary, more inclusive, and more entrepreneurial. University funds are already being organized to plant seeds for the beginning stages of this plan. For example, state funds for the Tier I Engineering initiative, cut from the state budget, have been internally re-allocated for computing initiatives to be developed. The following table provides the projected annual revenue at the end of Phase 2/Year 5 of the school.

<b>External funding (by end of Phase 2)</b> \$300K per SoC faculty and research scientist	\$7,500,000
<b>Corporate pattern program</b> 20 partners, average contribution \$25K/year	\$500,000
<b>Tuition revenues</b> 2.5 classes/year, class size 30 for each SoC faculty, \$154/credit hour	\$727,650
<b>Foundation</b> 25M endowment, 4% available/year	\$1,000,000
<b>Total projected revenue/year</b>	<b>\$9,727,600</b>
<b>(Projected costs/year)</b>	<b>(\$9,500,000)</b>

### Information on Other Required Approvals

N/A

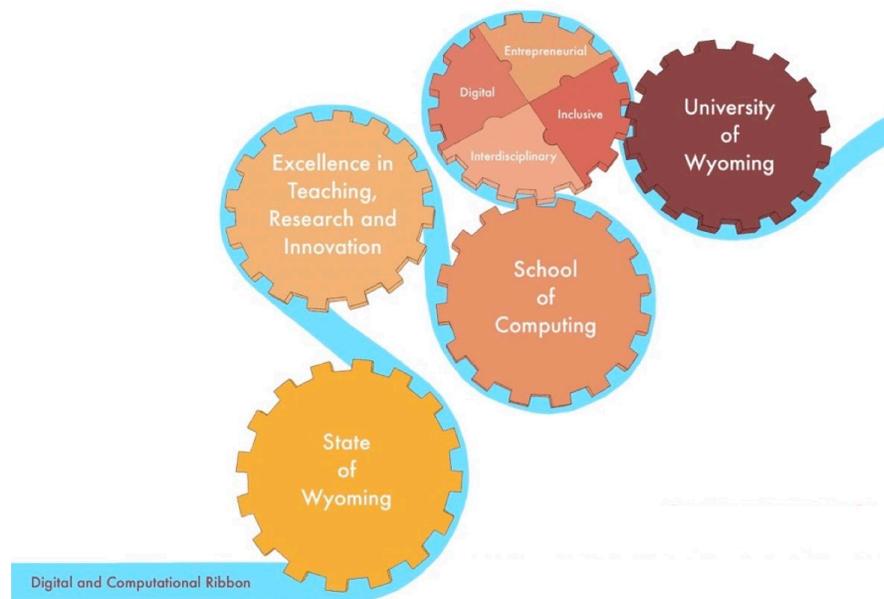
## University of Wyoming School of Computing Preliminary Plan May 2021

### 0. Preamble

To accomplish the overarching goal of building UW into a “best-in-class 21<sup>st</sup> century land grant university true to its Wyoming roots,” four focused goals have been identified: make UW more digital, make UW more interdisciplinary, make UW more entrepreneurial, and make UW more inclusive [2]. Central to the goal of making UW more digital is the establishment a School of Computing (SoC),

This preliminary report, prepared at the request of Provost Alexander and President Seidel, explores the programs, infrastructure and organizational structures needed to build out a School of Computing that transforms research and education at UW, while accelerating UW's role as an economic development engine.

A list of people involved in the writing of the document is provided in Appendix A. The Digital Pillar report, which describes all aspects of making UW more digital, can be found in [6]. For inquiries or comments about the School of Computing please e-mail [SoC@uwyo.edu](mailto:SoC@uwyo.edu).



The School of Computing is designed to strategically mesh together existing resources and initiatives, the other pillars (more inclusive, more interdisciplinary, and more entrepreneurial), UW's existing strengths in research and teaching, and partnerships throughout UW and across Wyoming, into a system that drives UW to its vision of becoming a best in-class university true to Wyoming's roots.

## 1. Introduction.

Wyoming has consistently sought to contribute to its future by investing in the education and training of its citizens through the University of Wyoming. Recent investments, including the Tier 1 Engineering Initiative (T-1), Science Initiative (SI), and Trustee's Education Initiative (TEI), along with capital investments in facilities provide a firm basis that focuses on the importance of Science, Technology, Engineering and Mathematics (STEM).

In the past decade, computing has become an increasingly crucial tool for research, for our graduates, and for almost all sectors of the economy. The University of Wyoming has responded by hiring faculty who use computing in their discipline, establishing programs like the Data Science Center and the Advanced Research Computing Center, and by developing a partnership with the University Cooperation for Atmospheric Research (UCAR) and its NSF-funded National Center for Atmospheric Research (NCAR) around the NCAR-Wyoming Supercomputer Center (NWSC). These have supported new modes of faculty research and increased awareness of computing across the campus.

Today, computing's impact is found in virtually every discipline, and simulation and modeling are more important than ever, but are joined by new data science technologies like artificial intelligence (AI), machine learning and blockchain that are starting to transform every academic discipline, every industry, and every aspect of modern society. Access to world-class infrastructure and workforce training in computing and data is therefore critical for Wyoming citizens, and for UW's students.

The productivity across UW in computational education and research is far below that of peers it aspires to be like.<sup>[1]</sup> The 21<sup>st</sup> century skills required by our graduates, the need for a tech-savvy workforce in Wyoming, the expansion of computing as an enabler in virtually every discipline, and the increasing complexity of the grand challenge problems facing researchers mandate a strategic response by UW. The SoC, along with the broader Digital Pillar plan, outline such a strategic response.

Through the SoC there are also great prospects for the University of Wyoming to emerge as a leader in rural computing and data, drive opportunities such as those anticipated via the Endless Frontiers Act and the Wyoming Innovation Network.

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<sup>[1]</sup> It is important to note the scale that is needed to have impact, and what is common across the nation. UW's current CS department has 8 professors (only 2 with an AI specialty) and the Advanced Research Computing Center (ARCC) has 4 current staff. Comparing the size of CS departments is only one, limited indicator, but it does give a sense of where we are. This year, UIUC, about three times UW's size, hired 23 new faculty in CS alone. Boise State, about twice UW's size, has more than 20 CS professors and plans to double in size. Notre Dame, a predominantly humanities and social sciences university, is almost exactly UW's size and has more than 4 times our CS faculty, and a unit like our ARCC with over 50 staff (almost entirely funded on soft money through grants). In all cases these activities are a foundation for economic development in their region. Similar comparisons can be made across other units and with other universities.[2]

## 2. Vision and Goals



Through the SoC, (and each of the other pillars), UW envisions forging new trails that will enable UW to become a **national leader in research, education and engagement**.

The SoC be a hub of innovation and knowledge exchange that will provide UW faculty, students, and Wyoming corporations and citizens, with a backpack of computationally tools to transform their domains.

The SoC will champion the broader efforts aimed at making UW more digital through partnerships throughout UW and the State.

## Vision Statement

Our vision is to *create a unique and inspirational School of Computing (SoC) with national impact and global reach, providing Wyoming and the world with agile and ethical computing professionals, empowered to address societal challenges that are inherently interdisciplinary.* Motivated by the roots of Wyoming to live each day with courage, the SoC will enrich our global data-driven society with excellence in teaching, research, and innovative entrepreneurialism in order to produce professionals who are fluent in computing, alongside enhancing its citizens' digital competency.

To this end the School of Computing will, in partnership with existing UW and community college units, position our land grant institution as:

- *a national leader in computational research, education, and engagement*, providing academic excellence in teaching, intellectual distinction in research, and transformative innovation for computationally intensive entrepreneurship. The SoC will **champion interdisciplinarity** across campus by fusing computation, digital, and data science curricula with all domains.
- *a computational hub for students, faculty, staff, community and our state, industrial and academic partners.* The SoC will skillfully **leverage corporate and knowledge partnerships** to unite learners, educators, entrepreneurs, and stakeholders, and create a sustainable robust digital ecosystem.
- *a steward, supporter, and developer of digital skills/literacy and computational thinking for all.* The SoC purpose is to **nurture computing curiosity across disciplines and backgrounds**, to enhance interdisciplinarity, and to capitalize upon emerging innovations for teaching, research, and economic diversification.

A School of Computing (SoC) will provide the organizational infrastructure and emphasis to accelerate the growth and impact of computing, AI and data science<sup>2</sup> at UW across research,

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<sup>2</sup> By “computer science” we refer to the core disciplines concerned with the theory and design of computer systems (e.g., algorithms, programming languages, AI, operating systems, networking, databases, distributed systems, software engineering). By “data science” we mean on the interdisciplinary use of statistics, computer science and applied mathematics to operate on data to achieve meaningful outcomes. By “computer engineering” we refer to the fields that contribute to develop computer hardware and software, focusing on how computer systems work and how they integrate into the larger picture. By “computing” we include computer science, computer engineering, data science and their broader applications across disciplines, and as such envisage a broad interdisciplinary scope. By

teaching, entrepreneurship, and engagement. Motivating outcomes for the SoC are to increase UW's ability to address grand challenge problems of critical importance to the state, to better prepare students from diverse backgrounds and in all disciplines for future careers that require computing and data science, to grow the student body in computing and data science, and to support the state in building a new, diverse economic sector based in technology through research partnerships, workforce development, training, and entrepreneurship. Finally, a critical long-term goal of the SoC is to catalyze excellence in research and teaching to help establish UW as an R1 Carnegie-rated university.

While the vision is for the SoC to be the focal point of computing leadership and activity at UW, the aim is to achieve this by integration and collaboration with a broad set of other units including all academic departments as well as libraries, student success programs and discovery programs. In this manner, the SoC will advance educational and basic research in key fundamental areas of computing and support the adoption and use of computational methods as a transformational element of research and teaching across the university. For this reason, we suggest the school be simply named the "School of Computing" with the understanding that this will include informatics, broad applications of computing and information systems, computer science, computer engineering, "computing for all," K-12 education, computational sciences, mathematics/statistics, and others. Including other topics in the name of the school would inevitably seem to exclude fields.

We suggest a school, led by a dean, rather than a college, envisaging that the SoC needs to be interdisciplinary as well as nimble and flexible, and thus avoid the construction of departmental silos. In addition, as described below, we envisage that by developing SoC as a new school that integrates with existing units via joint appointments, there will not need to be a large body of new faculty with tenure in the school. Finally, starting as a school will provide future flexibility to become a college potentially later. In this direction, the committee noted the way that some Colleges of Computing at other universities are moving towards novel organizational structures as computing becomes more pervasive across all disciplines.

Several thoughtful reports lay out the motivation and rationale for establishing a new school or college of computing (e.g., [4-5]), based on a recognition that computing is different from other departments in science or engineering, that it is pervasive across a university, is multidisciplinary requiring potentially broad hiring, will increase research and external funding, and requires university support at the College/School level. In Wyoming, there are additional motivators. The President has included "more digital" as one of the four pillars driving UW over the coming years (and the new SoC will also underpin and support the other pillars: more inclusive, more

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"information science" we mean an interdisciplinary field of inquiry and professional practice concerned with the collection, organization, sharing, and protection of information, and its relationships with society and individuals across a diverse range of contexts. Closely related, "informatics" broadly describes the study, design, and development of information technology for the good of people, organizations, and society.

entrepreneurial, and more interdisciplinary). The whole state is looking to UW to lead in economic opportunities where the technology is a priority, building on the relative nimbleness and adaptability of Wyoming's workforce. Finally, the new Wyoming Innovation Network (WIN) and the already established Wyoming K-12 Computer Science Hub (WyCS) point to opportunities for Wyoming to lead the nation in a coordinated initiative for workforce development for the rural US.

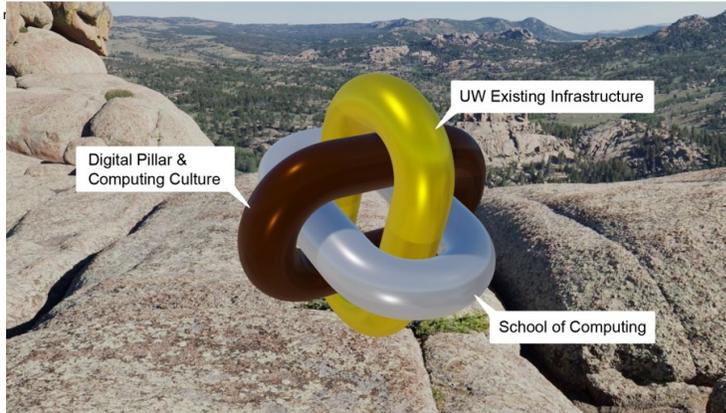
The School of Computing (SoC) is envisioned to be a statewide asset in which the University of Wyoming and all Wyoming Community Colleges (CC) are academic partners, with SoC partner units at each community college. The SoC will contribute to the new Wyoming Innovation Network (WIN), providing advice and classes for a large statewide audience in addition to enrolled students at the schools. We also envisage SoC partners to include the Agriculture Experimental Stations and Tribal Councils. All the partners will expand their digital connections into the SoC, with different emphases. The different CCs have different digital needs and, as the SoC expands its outreach and impact, Wyoming's agricultural sector will expand the digital definition further. There is a real need to expand the impact of the SoC into the state government as soon as possible and then target local governments in later phases. This is envisaged to be particularly powerful as a collaboration between SoC and partnering units from across campus. Within 10 years, the SoC should become the entry point for trusted computing expertise and source of computationally savvy employees in the State of Wyoming.

The SoC should engage in and develop a reputation for world class, high caliber research in areas of computing, recruiting and retaining top faculty and staff. But it must impact the state far beyond a typical research facility. It should develop both undergraduate and graduate level degree programs (e.g., B.S., M.S., and Ph.D.). Minor programs at all levels should be created in collaboration with other departments and programs. Micro-credential offerings for internal and external partners are critical to develop, and those will expand or shrink over time as needs change. These credentialed offerings would serve colleges (e.g., courses on cybersecurity and blockchain for the law school), non-traditional learners (e.g., computing in the 21st century), and critical needs of the state/region (e.g., workforce retraining).

The SoC could also provide and support some efficiencies and improvements in UW's computational curricula. For example, having students across UW understand and utilize the same foundational computer platforms or programming languages (at least through the junior year, before specializing in their field) would enable classes to build upon students' basic skill set to explore disciplinary concepts via modelling. Another example is to have a common course module (e.g., basics of scientific computing), taught by various departments as a university-wide short-course, followed by a disciplinary-specific short-course that is experiential or project-based in nature.

The SoC will produce professionals who are fluent in computing, alongside enhancing its citizens' digital competency. UW graduates interacting with the SoC via the interdisciplinary initiatives with departments will benefit from knowledge and experience regarding the application of computing in their chosen domain, equipping them to be perceptive

and cognizant graduates who have experience in innovative applications of computing—and thus competitive in the workplace. The SoC could lead a statewide program of computing engagement by coordinating publicly facing existing UW offerings, such as Digital Badges (from the Innovation Wyrkshop), Short Courses in 360-degree data capture (in the 3D Visualization Center), the Coe Student Innovation Center public activities (in the Coe Library), and the Digital Classes such as Tableau Public Workshops (also in the Coe Library).



The collaborations between the School of Computing, UW’s existing infrastructure and initiatives, and the Digital Pillar are critical to the goal of UW becoming more digital. This is illustrated on the left by Borromean rings. These rings are inseparably linked, yet when any one of them is cut and removed the other two rings can be separated.

For the School of Computing to be successful, a strong Advanced Research Computing Center (ARCC) with a close affiliation with the School of Computing is essential. The ARCC focuses on advanced research computing. With a new Director and updated vision, the ARCC should work closely with the Dean of the School of Computing and with faculty researchers to support advanced research computing. It should build on existing resources and NCAR Wyoming Supercomputer Center (NWSC) opportunities and grow ARCC into a unit with research support capacity (both people and facilities) that includes expertise in domains of high strategic interest to the School of Computing, the University, and the state of Wyoming. In turn, the SoC aggregates faculty and researcher needs and opportunities for research infrastructure, providing ARCC with insights and advice, partnering to pursue funding opportunities to expand and support ARCC’s computing infrastructure.

It is imperative that the activities and opportunities provided by the SoC are influenced by state, national, and global needs and are subsequently promoted and made accessible to Wyoming citizens. The SoC should expand on the pandemic-led Zoom experiences of our faculty in 2020 to offer at-home and distance learning opportunities. A needs assessment (of the public and corporate leaders of Wyoming industry) here would allow for specific gaps in the market to be targeted and filled with high impact quality product offerings.

The SoC could lead a program of ‘Knowledge Transfer, Exchange, and Partnership.’ This would benefit internal and external agencies, as well as the SoC. For example, a UW department could benefit from training to support a new class, this transfer of knowledge would empower the department to offer a new topic of study. Alternatively, a UW center might seek to collaborate with the SoC to form a mutually beneficial relationship with both parties bringing

complimentary knowledge and expertise, as well as skillsets and visionary thought, collaborative research grants could be sought using existing (and new) research computing infrastructure, this would constitute a knowledge exchange. Finally, a knowledge partnership could take the form of swapping individuals in positions of employment, such as a research scientist in the SoC and a software engineer at Google, this could be led partly by the Corporate Partnership strategy.

In summary, the opportunities are well defined, the need is great, and the time is right for a School of Computing at UW. Failing to move forward with a SoC will jeopardize the career preparedness, opportunities and competitiveness of our graduates, the professional development staff, the intellectual advancement of faculty, and ultimately the economic and social welfare of our citizens.

### **3. Administration of the SOC**

The SoC will be the primary administrative center for the Digital Pillar and work to accomplish its goals. Cooperating and collaborating with UW areas of computer expertise already present—such as the College of Engineering and Applied Science, the Computer Science department, the Mathematics and Statistics department, and the Data Science Center, to name a few—it will coordinate the implementation of the Digital Pillar and work to achieve the envisioned transformation of Digital Education here at the university. Digital and computational computing empowers all students, and the SoC will work purposely to include all students from diverse backgrounds in its opportunities. The school will pursue three main goals in support of the Digital Pillar.

First, the SoC will be the nexus of computing education. It will develop and support a bachelor's degree in computing, drawing where possible upon already existing courses and supplementing them with its own offerings. In addition, it will work to develop interdisciplinary computing concentration options with other disciplines and departments. By the end of Phase 2, the SoC will develop graduate offerings in computation, including Master's and PhD degrees. It may also house newly created computationally intensive clusters, such as the Laboratory for Earth System Modelling proposed under Wyoming's 2021 NSF EPSCoR Track 1 RII proposal.

Second, the SoC will support the Digital Pillar implementation across campus, providing expertise, resources and programs for students and faculty. On the one hand, it will work with campus student programs, in both academic and student affairs, to create opportunities for digital education and experiences, from Living-Learning communities and Freshman Seminars to University Studies to certificates, minors and majors. On the other hand, it will work with faculty and departments to help them gain abilities and expertise in digital applications in their disciplines through programs, training and support.

Third, the SoC will work with entities outside UW. It will develop corporate partnerships to support its initiatives. It will liaise with state entities and support Wyoming computing initiatives such as the new Wyoming K-12 Computer Science Hub (WyCS), economic programs such as the Wyoming Innovation Network (WIN), and blockchain development. It will work to support digital

applications and education in the community colleges, tribal areas and Agricultural Extension and Experimental Stations.

The School of Computing will have three chief administrators from its inception. It will be led by a dean who will have general responsibility for the school and its assigned duties and who will have primary responsibility for external relations and financial development. Under this position will be two associate deans, each who will maintain their research/scholarship duties, one of whom will have primary responsibility developing the SoC's research partnerships and profile, identifying and orchestrating UW's response to funding opportunities, while the other one will have primary responsibility for the campus-wide Digital Pillar education initiative. SoC's curricula will be informed through partnerships with other universities and awareness of similar programs and developed by committees of SoC faculty.

**a. Dean of the School of Computing**

The Dean would have primary authority over the Computing and digital education initiatives being run out of the SoC. They would serve as the school's primary link to the UW administration and to outside entities such as the state, the state government, businesses, and scientific and other key establishments. It will be their responsibility to liaise with state entities to develop cooperative, community efforts between the SoC and communities around Wyoming. They will work to support Wyoming economic development activities, such as WIN, and Wyoming education activities from K-12 to the community colleges. Fund-raising and the development of corporate partnerships will constitute a key aspect of their duties, as well as working with Wyoming state government to create funding opportunities.

**b. Associate Dean for Computing**

This AD will be responsible for the SoC's research and partnership programs, as well as oversee SoC faculty's development of undergraduate and graduate programs. The AD will help identify funding opportunities, establish a team of SoC faculty and research scientists and UW collaborators to pursue funding opportunities that fit UW's expertise and Wyoming's interests. The AD will work to establish new partnerships, both corporate and with national labs and other institutions, and strengthen existing partnerships. This AD will work with departments and faculty outside the SoC to identify potential collaborations. Additionally, this AD will be responsible for working with the ARCC to ensure that the needed computing support and equipment for SoC's research and education programs are developed; and to identify SoC personnel to be part of computational infrastructure proposals led by the ARCC.

**c. Associate Dean for Digital Education**

This AD will have a joint appointment with Academic affairs and will take on the task of implanting the "Digital for All" expansion of digital capabilities across the UW campus at both the student level and the faculty level. As the campus's "Digital Champion," this position's primary responsibility will be to coordinate and implement the Digital Pillar's initiatives within the undergraduate curriculum and with faculty and department professional development to develop instructors and resources for the goal of providing all UW students with education in computing and digital instruction. Their work will primarily be with UW units outside the SoC

They will need to pursue a dual focus: First, they will be responsible for providing students with expanding opportunities for digital education. Second, they will work to develop faculty expertise in digital and computational approaches in different disciplines to offer the courses needed for this transformation in undergraduate learning.

#### **4. Key programmatic elements**

This section provides some more details about key programmatic elements of the proposed SoC.

##### **A concentration of interdisciplinary faculty all having joint appointments.**

All SoC faculty will have joint appointments in a disciplinary program, with the intent of having SoC hiring impact more than SoC, creating natural opportunities for collaborations, etc.

The SoC would house an interdisciplinary concentration of faculty, and its leadership would have reporting lines to the Provost and VPRED to reflect the SoC's academic, research, and economic development missions. The SoC will draw on and add to strengths of the College of Engineering and Applied Sciences, and the College of Arts and Sciences, as is traditional for such a school. But very importantly, the SoC will also work closely with the College of Business and entrepreneurship programs, given the central importance of economic development to the mission of SoC, as well as to the College of Education and the community colleges across Wyoming, given the importance of boosting education in computing, data, and AI across the state.

##### **Pro-active programs to enhance inclusivity.**

Establishing a diverse faculty and student body must be a priority of the SoC, and creative, pro-active programs should be developed to support this. Some possibilities to explore include:

- A robust target of opportunity program that enables the SoC, or the SoC in partnership with a given department, to quickly recruit faculty as opportunities arise (e.g., a domestic partner is being recruited to UW, a highly qualified faculty member at another institute expresses interest in UW).
- An active, funded, seminar series that brings potential recruits to UW (before the hiring season).
- Programs to encourage and support new endeavors in computing and digital research at the faculty and departmental level, including seed money to support new course development.
- Funds to allow targeted recruiting of under-represented minority (faculty, graduate students, and undergraduate students).
- Utilization of a visiting scientist program to enhance inclusivity.
- Long-term programs to develop pipelines (e.g., K-12 programs across the State, a Native American Computing Opportunities program).
- Establish the current pathway for K12 students via the use of WySLICE (Wyoming's School and Libraries Integrating Computer Science in Education) and consider how to strengthen/broaden the existing initiative.

- Encourage the development of Culturally Relevant Computing (CRC), which can 'give voice to the youth' and 'deepen identities' (this applies to adults in education also). See, for example, the article [7]. Look to the examples of how the ACM supports Diversity & Inclusion [8] and consider where existing good practice can be adopted at UW.

The School of Computing will have programs dedicated to Wyoming's Native American population, and to working with the Eastern Shoshone and Northern Arapahoe tribes to identify and support ways that computing, and more broadly digital technologies, can be used to enhance their communities and provide tools and information to study issues of importance to the community. These activities will be in partnership with UW's Native American Education, Research and Cultural Center, and the Native American and Indigenous Studies program, UW's High Plains American Indian Research Institute, and UW's EPSCoR program (which has existing relationships and programs with Central Wyoming College, and the Wind River Communities.). The SoC will regularly meet with Tribal community leaders and follow their lead in identifying, shaping, and delivering programs to serve their communities. Some initial topics that might be explored are:

- Computing and digital education for all ages that reflect community values and vision.
- Nurturing, providing scholarships and internships for students who express interest in computing.
- Use of computing and data-analysis to enhance the communities' values of "preserving, managing, and protecting, resources for future uses by generations to come."
- Use of technology in agriculture, wildlife management, etc.

Central Wyoming College plays a critical role in UW's relationships with the Wind River community. The SoC will work closely with CWC faculty to support the development and delivery of digital curricula of interest and importance to their students.

The proposed budget includes funds for a joint hire with CWC devoted to computing curricula., and an inclusivity pool to facilitate the SoC to be aggressive in recruiting Native American, as Hispanic, African American and women, faculty, research staff and students.

Beyond the scope of the SoC, but within the digital pillar and UW's mission, is networking. UW, the State, and the Wind River Leadership should work together to provide ample networking for the Wind River communities. The State, UW and the Wind River Tribes should partner to pursue federal funding to support much needed networking upgrades to the Wind River communities.

### **Enhancing research and educational aspects of the Wyoming Data Hub**

A Wyoming Data Hub, which will support students, faculty, administration, and state agencies utilization of data analytic tools and Wyoming-centric data sets to expand the frontiers of knowledge, analyze and propose solutions to problems of interest, and inform policy decisions. By its very nature, and because of the increasing importance of data across all disciplines, the Data Hub will catalyze interdisciplinary research. It is planned for the Wyoming Data Hub to be supported by UW's Advanced Research Computing Center and overseen by UW Libraries. The

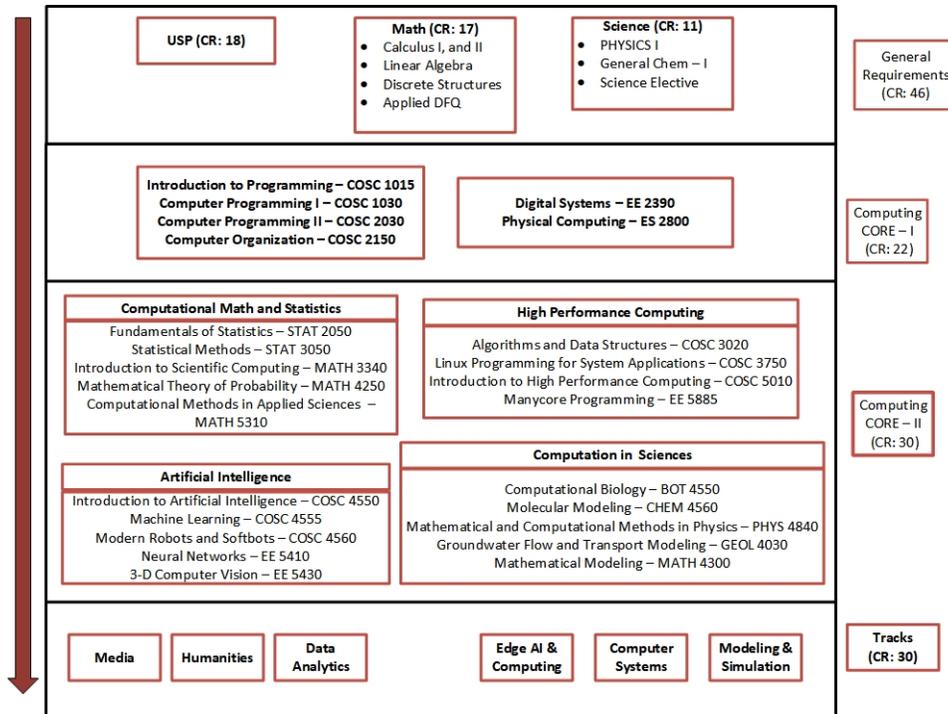
Data Hub will also provide a research tool for SoC faculty and students to develop, evaluation and utilize new computational and analytic tools to mine and synthesize data.

One goal of the proposed Wyoming Data Hub is to make Wyoming-centric data more accessible to Wyoming citizens, agencies, UW students, and facilitate interdisciplinary research addressing critical Wyoming issues and opportunities. The Wind River tribal communities are important constituents who should have access to Wyoming data, and they also are important collectors and providers of data in the state. It is critical that Wind River tribal councils have agency over their own data, and to that end it will be important to develop an agreement with the Wind River Tribes to ensure the sovereignty of data is that of the Tribes. This could be modeled after the existing agreement and operations with UW's EPSCoR office, where a tribal data is stored on a system and server that is off the grid, and all analysis is done on that system.

In this model, no tribal data would be stored on the Wyoming Data Hub, but the Wind River Community would have access to the Wyoming Data Hub. Data analytic tools for the Wyoming Data Hub would be provided, as desired, on a stand-alone system. We envisage in the future, working with the Wind River community to explore opportunities for data sharing that would not violate sovereignty and agency over data, for example, in non-consumptive data analysis.

### **Innovative Curricula to Enhance Workforce**

The SoC will establish a bachelors, MS and PhD degrees that are tied to producing students with a broad range of interests with the needed 21<sup>st</sup> century skills to use computing in their chosen careers. The first degree to be built out will be the bachelor's degree. Initially the existing Interdisciplinary Minor in Scientific Computing will be evolved and utilized as the program for SoC-affiliated graduate students. Near the end of Phase 1 the MS and PhD programs will be built out. Below a more detailed description of the bachelor's degree is given.



**Chart 1: Proposed SoC Bachelor's Degree with example tracks.**

The core bachelor's degree in computing will include courses in Math and Statistics, machine learning, data analysis and management, algorithms, modeling and simulations, game theory, and of course coding. SoC will work with other departments to create interdisciplinary majors. These could include computational mathematics, computational music, archaeoinformatics, computational biology, computational finance, disease informatics, and computational philosophy, to name just a few.

The computing major would differ in organization and emphasis from the present Computer Science and Computer Engineering degrees, complementing them rather than competing. The major would be designed with four course areas (see Chart 1 for more information):

1. General Requirements, 46 credits: Math, Science and University Studies.
2. Computing Core I, 22 credits: Introductory level courses currently offered by Computer Science and ECE departments in programming, computer organization, digital systems, and physical computing.
3. Computing Core II, 30 credits: Four modules of focus, from which students take two. These are: Computational Math and Statistics, High Performance Computing, Artificial Intelligence and Computation in Sciences. These are upper-level courses, and which are currently offered in various departments across UW.
4. Concentration Tracks, 30 credits: Initially these will be computation tracks (Edge AI, Computer Systems, Modeling and Simulation, Data Analytics). Interdisciplinary concentrations will be developed with collaborating departments (e.g., archaeology, history, art, music, philosophy, environmental science, biology).

Additionally, the SoC would provide, or partner in providing, short courses/boot camps for various stakeholders (e.g., INBRE short-courses for computing in the biosciences at Wyoming's community Colleges, boot-camps for incoming graduate students on computing and data analytics, Software Carpentry course for students and faculty, and software engineers at Wyoming agencies.). The SoC will also partners with NVidia, and IBM to offer workshops on the latest computing software and hardware architectures.

### **Digital for All**

Here we briefly describe a vision for SoC's involvement in the Digital Pillar. The SoC will be the champion for UW's digital pillar effort, and this championship will be led by the Associate Dean for Digital Education. The following description echoes descriptions in the larger Digital Pillar report [6].

UW undergraduate students should learn that digital and computational methods/ tools/ approaches are becoming increasingly part of all disciplines of knowledge and aspects of life. At a general level, they should be exposed to the variety of ways that digital tools can be used to accomplish tasks—many of them new tasks never before possible—in areas from medicine to art and music to engineering and society--and gain introductory experience in using them. Students should also learn how to analyze the human, social and scientific impacts the existence and use of these tools bring. At a specific level, they should learn in greater detail and expertise how to use the digital tools available in their fields of study and understand the theory of how digital approaches and computational methods will change their fields in the future.

These curricular goals can be accomplished by placing digital education (including computational approaches) into the undergraduate experience in the following ways.

- Foster the creation of a digital course requirement in the University Studies Program for all students.
- Create different digital/computational groups within UW's Living Learning Community.
- Provide Freshman Seminars about digital and computational approaches within different disciplines or as they apply to different interdisciplinary questions.
- Design four-course certificates and six-course minors open to all students for cross-disciplinary skill learning. These could be in areas such as 3D modeling (digital and physical), coding skills, analysis of society and the internet, GIS, and blockchain.
- Help organize majors to include digital and computation components in disciplines across the campus. Whole new majors could be developed as well.

The AD in Digital Education will also work to develop faculty expertise in digital and computational approaches in different disciplines to offer the courses needed for this transformation in undergraduate learning. They will support the disciplines that already make extensive use of computational and digital approaches in their research and teaching. Departments in these areas will be able to take advantage of UW's new digital emphasis by creating a few new courses—perhaps for non-majors—or a slight redesign of their curriculum. The AD will work with the many other departments which have little experience with teaching students about digital or computational matters in their field, even if some of their faculty use

such methods in their own research. The AD would work to develop digital and computational expertise among existing faculty and departments. A high-level, campus-wide program should be available to encourage, nurture, guide and train faculty and departments in digital skills and knowledge. Its goal would be to encourage and support the development of digital expertise among individual faculty, disciplinary faculty groups within departments and interdisciplinary groups of faculty across departments.

The Digital for All program would support diverse types of educational and recruiting activities for faculty, such as the following.

- Invited speakers from a variety of disciplines who use digital or computation approaches in their research. These could come from both UW and outside.
- Assisting individual researchers in the acquisition digital skills by encouraging pedagogical and/or research projects with seed money, equipment, and software support centers--both existing (e.g., 3D visualization center and makerspaces) and newly developed. The aim would be to help these individuals develop one or two digitally oriented courses in their area.
- Helping to form disciplinary and cross-disciplinary faculty teams to provide a coordinated curriculum of courses.
- Providing support to these faculty groups to enable them to devise long-term strategies to pursue research or teaching goals. Such support could range from meeting space to consultation opportunities to small seed grants.
- Implement the strategies to support digital research through activities such as writing grant applications, undertaking pilot projects, composing exploratory papers, and so on.

Finally, there are many groups and units across campus which have been pioneering a variety of digital initiatives. The Digital for All program aims to work with these existing programs, coordinating with them and helping them build upon the success they have already achieved. Some are research oriented while others are student oriented. They range from the 3D Visualization Center and the Center for Data Analytics to the makerspaces and Studio Coe.

### **Wyoming Computing Scholars Program**

This campus-wide program will

- Attract a diverse pool of Wyoming high school graduates with an interest in computing to the University of Wyoming.
- Retain promising students at UW through early involvement in computing research, and SoC seminars and outreach events.
- Pair talented college students with a faculty mentor who oversee student progress, nurture their development, and help them identify opportunities at the SoC, as well as with SoC national partners.
- Strengthen each scholar's soft skills through opportunities to work in collaborative, interdisciplinary teams, and give oral and written presentations.

The program will be competitive, and open to students of all disciplines. Students from Wyoming Community Colleges would be eligible for the program.

### **Internship programs**

The SoC will partner with or create internship programs to enhance the learning experiences of its students at both the undergraduate and graduate level.

An example of a promising partnership is the Technology Associate Program (TAP) housed in UW's 3D Viz Center. Through the TAP, students can receive academic credit and income through an internship that is focused on technology, software, and applications development and testing. They select or move between a technical and a creative track and undertake packages of work which are either training orientated or work projects for a real-world client.

Through recent collaboration with EERB Makerspace, the components of work on the 3D Viz Center TAP are being translated to take the form of digital badge; this compartmentalizes the learning into bite sized sections. The future goal of the TAP program is to see students move between sections of UW offering TAP internships. Students can attend for a maximum of 19 hours per week and are required to support in person visits to highlight technology in the 3D Viz Center. Students typically attend for a TAP internship when they want to top up their experience in a specific area of interest and skill. In 7 years over 50 internships have taken place in the 3D Viz Center, a relationship is maintained with the graduates' students who return to present to the current cohort and address how their intern experiences impact their career.

Following the lead of other schools of computing, UW's SoC would also develop a corporate scholar's program, as described below. The SoC **Corporate Scholars Program** will be developed in close liaison with the Digital Pillar corporate partnerships program, and the newly seed funded UW Pioneer Program. The Pioneer Program is a 'Knowledge & Expertise Exchange Connecting Skilled Students with Wyoming Entrepreneurs'. It will build a team of "Pioneers," undergraduate and graduate students trained in over 70 existing emergent technology competencies, and match those selected with the regional (or otherwise) businesses seeking assistance. The primary goal is 'that this project-based, competency-driven program is to develop a network that connects Wyoming businesses seeking help with innovative projects with students whose academic experiences have helped them develop design thinking mindsets, collaborative, and interdisciplinary approaches to work, and proven technological skills'. This framework would be broadened to encompass the prospect of collaborative research projects, the overlap with back-end infrastructure and front-end corporate dev with the Digital Pillar is significant.

### **Corporate and Lab partnerships**

The federal government, and the private sector continue to invest in computing, and in particular artificial intelligence. At the federal level, these investments are in traditional areas such as military, energy, and science and engineering, as well increasingly in areas such as health, homeland security, securities and exchange. In the public sector, there are major investments in the US (and indeed in Wyoming) in the use of AI in transportation, business services, medicine,

and life-science applications. These investments are projected to continue to increase and broaden.

These investments and interest in computing, positions the SoC to quickly become a nexus for partnerships with corporations and national laboratories. Partnerships with National Laboratories provide a wealth of (often life-changing) opportunities for UW students and graduates, gives access for UW researchers to large grants and research projects, and provides UW a seat at the table in discussions about computing and computing education at the national level. Partnerships with corporations provide new opportunities for students and faculty to work on “real-world” problems and a new revenue stream for funding of students and research projects. Partnerships with Wyoming corporations and State Agencies can help the SoC directly, and quickly impact workforce development in Wyoming.

Section 5 of the Digital Pillar report [6] provides recommendations and details of how UW and will grow and strengthen partnerships, and outlines SoC’s leading role in these endeavors.

**Workforce and economic development and statewide engagement.**

The stated mission of the SoC is to provide Wyoming with the computing professionals to advance the state’s economy. To this end, contributing to workforce development, economic development and statewide engagement are essential components of the school. As the lead for a top-level academic unit, the SoC Dean will be fully included and engaged in the university’s strategic planning and strategic programs.

The budget includes an FTE devoted to workforce development. This person would oversee the Computing Scholars program, and the Corporate Internship program. Additionally, they would act as the SoC’s liaison to UW’s Career Services Center and facilitate workforce development activities included in SoC faculty grants.

Section 6 of the Digital Pillar report [6] provides details about statewide engagement regarding computing, and the SoC will be integrally involved in these efforts.

The budget includes one FTE that is joint with the Office of Research and Economic Development, devoted to working with Wyoming companies and SoC faculty and affiliates to support economic development through building an awareness of, and joint exploration of, new opportunities enabled by computing and related technologies spur on new business opportunities; working with other State, regional and UW entities to help recruit support new Wyoming’s growing tech economy.

**Partnerships to ensure Wyoming is a leader in computing education at the K-12 level.**

Due to the State’s forward-looking adoption as Computer Science as a required academic content for all students throughout the K-12 experience, existing computing-related programs for

students and teachers led by UW and CC faculty UW is uniquely positioned to help the meet the challenge of providing Wyoming's K-12 students with the critical basic computational skills.

SoC's efforts in this regard will focus on developing partnerships to support and leverage the wealth of existing programs, and on providing a hub for statewide computing-related outreach. Serving as a hub will facilitate SoC faculty and affiliates to work with existing programs to develop broader impact activities for grant proposals rather than create short-lived programs that duplicate existing efforts. This can provide stability and fresh perspectives for existing programs. With SoC leadership, long-term studies on the impacts of these programs could not only help Wyoming faculty and the State improve these programs but could provide compelling stories of the positive impacts of the programs throughout Wyoming and in Wyoming's students.

A couple of prototypes of high-quality programs that SoC could leverage through partnerships are the following.

- Several summer outreach activities are conducted by faculty in computer science, computer engineering and college of education, to introduce computing to K-12 teachers. The goals of the outreach activities are to have trained K-12 teachers as the best conduits for educating K-12 students in areas crucial for the economic development of the state and workforce development such as Computer Science, Engineering, STEM and futuristic technologies like AI, and Internet of Things.
- The computer engineering department currently hosts two summer workshops for K-12 teachers. The Engineering Summer Program for Teachers (ESP4T) is a four-day long workshop on Physical Computing. Physical Computing combines programming and programming applications in STEM areas. The K-12 teachers are trained in using programming with edge devices to address a science or math or arts concepts to K-12 students. The ESP4T workshop was initiated in 2016, and each year ninety-six K-12 teachers have participated in this workshop.
- In 2021 summer, a pilot workshop titled "Machine Learning for High School Teachers" (ML4HST) will be introduced. One of the goals of the ML4HST is to introduce teachers for grades 8-12 in STEM areas to basic concepts of Machine Learning and applications in various fields. The pilot workshop has accepted eighteen teachers from across the state.

## **5. Phased plans for development of School of Computing**

### ***Phase 0 (3 months) Recommendations***

1. The UW Provost should outline an appropriate process to select and appoint an interim dean, associate deans (all existing faculty at UW) and internal steering committee.
2. Appoint an internal steering committee for the startup phase of the SoC that includes representation from key units to advise in guiding build out, maintaining stakeholder relationships, and identifying initial thematic areas and faculty.

3. Appoint an interim dean and administrative staff (including an executive assistant and staff for programs in education/workforce development and corporate partnerships). The interim dean should be a UW faculty member with proven leadership, effective communication skills, and broad knowledge of computing. The ideal candidate will have experience or knowledge of other schools of computing and will have contributed to building a diverse and inclusive culture. Two associate deans from the UW faculty should also be appointed.
4. The School of Computing's success will be critically dependent on a vibrant Advanced Research Computing Center (ARCC) with strong, inventive leadership. ARCC does not presently have a permanent leader, but attracting one is a high priority of UW. With ARCC continuing to report to ORED, the ARCC leader must be capable of leading the organization in tight cooperation with the School of Computing in response to its evolving interests. A permanent ARCC leader should be energetic, creative, and collaborative, with experience and interest in both computing center operations and computationally driven research. This director should be capable of optimizing the operations of a core research computing center while recruiting a team over the long run that serves both the operational interests of ARCC and the strategic research interests that will be supported by the School of Computing.
5. Secure appropriate space on or near the campus for the startup phase of the new school. This space should include office space for the Dean and administrative staff, faculty/researcher/visitor offices and space to gather for meetings, seminars, training events etc.
6. Develop and promote a set of values and clear mission statement for the SoC that will drive future development. For example, it is important to develop a supportive, inclusive, and interdisciplinary culture from the very start.
7. Develop and initiate a marketing and communication plan for the SoC with internal and external key stakeholders.

### ***Phase 1 (Years 1 and 2) Recommendations***

8. The interim dean should develop as soon as possible a full operational plan for the SoC that includes a business plan and metrics for evaluation. The plan should detail the various kinds of faculty and staff appointments and clarify IDC recuperation for any split appointments. This planning should be undertaken in coordination with the steering committee and include town halls and other mechanisms for broad faculty and community input.
9. Plan a timescale for and execute an international search for a permanent dean. The dean should have proven skills to communicate with the governor, state and federal officials, the Foundation, tribal leaders, and corporate leaders. Establish an external advisory board including representation from successful external computing schools, industry with a high research component, and geographically broad Wyoming business and entrepreneurial councils.
10. Select key existing UW faculty (e.g., 6-8 faculty) based on background, interests, and commitment to working to achieve the SoC vision. It is essential to work with department

heads so that such changes are welcome and strategic for the units, e.g., providing departments with a new hire (potentially joint with SoC), planning for the transition effect on teaching commitments, so that the SoC faculty provide bridges to former units. The UW faculty forming the initial core of SoC should be strategically selected and targeted towards carefully chosen thematic areas building on existing strengths in core computing topics, developing strategic topics and economic development. Computing, Artificial Intelligence, and Climate and Energy Sciences should be represented in the initial research pillars of the SoC. Additional key areas of interest include the Grand Challenge priority areas and new uses of computing and data in the arts, humanities, and social sciences. Domain experts should enhance external research funding activities in core and application domain areas. Diversity of SoC staff and computing inclusivity should be taken seriously from the start. Faculty will be connected to the SoC in diverse ways, including full appointments with tenure held in the SoC, split appointments between the SoC and another home academic department, affiliate and visiting faculty.

11. Work with the Wyoming's community colleges (potentially via WIN) to ensure that SoC planning includes their needs and vision. Identify initial affiliates for the SoC at each of the community colleges.
12. Identify a diverse collection of a dozen visiting faculty from national and international universities to contribute to the Phase 1 building of the SoC. Host these faculty at the SoC for visits of 1-6 months, with potential continued engagement via longer term visiting affiliate appointments.
13. Work with the deans/department heads and provost on cluster hiring initiatives whereby approximately six new joint hires will be made in Phase 1 to build up SoC faculty.
14. Recruit a few research scientists that work at a similar or higher level than the current faculty but are not tenure track. Develop a culture such that non-tenure track staff are truly valued and respected. Work with other units to place research scientists (e.g., computational scientists at the Center of Innovation for Flow through Porous media (COIFPM) at the SoC or affiliate them with the SoC to strengthen UW's core computational expertise.
15. Expand existing and develop new corporate and national laboratory partners (e.g., National Center for Atmospheric Research (NCAR), Argonne National Lab (ANL), Cardiff University).
16. Working with UW leadership and unit leads, determine which existing entities on campus could/should be closely connected with the SoC and could be included via different mechanisms, e.g., as a reporting unit, affiliate or dual report, or in collocated space. As with all partners, attention will be given to crafting mutually beneficial outcomes. Affiliation with the [Advanced Research Computing Center \(ARCC\)](#) is critical for the SoC. Other entities of high relevance include (this list will grow as the SoC develops!):
  - [Shell 3D Viz Center](#)
  - [Data Science Center](#)
  - [Wyoming Geographic Information Science Center \(WYGISC\)](#)
  - [Wyoming Water Resources Data System \(WRDS\)](#)
  - Center for Blockchain and Digital Innovation

- [Digital Scholarship Center](#)
  - Center for Design Thinking
  - [Center of Innovation for Flow through Porous media \(COIFPM\)](#)
  - [Innovation Wyrkshop](#)
  - [Coe Student Innovation Center](#)
  - [Cybersecurity Education and Research Center \(CEDAR\)](#)
  - [Secure Systems Collaborative](#)
17. Build an initiative with the Foundation that will lead to Phase II and long-term funding for the SoC and develop a robust business plan. This will include immediately working with the Foundation to find \$15-25M in new donorships for the SoC and designing a program of long-term corporate partnerships with relationships of 3-20 years to enable sustained partnerships.
18. Action items have focused on operational issues to establish the SoC, but as soon as faculty are assigned, there will be research, education, and engagement activities. These will include:
- Working with other economic development activities (e.g., in ORED), initiate a corporate partners program to develop research and education links with appropriate industrial partners.
  - Lead interdisciplinary activity across campus, working with departmental liaisons and initiatives such as the Grand Challenges, EPSCOR R1, Science Initiative as well as non-traditional partners such as the Wyoming Institute for Humanities, the Wyoming Arts Council, and the Wyoming Arts Alliance to diligently and impactfully weave computing with other domains, establishing projects and labs in initial thematic areas of emphasis.
  - Define and prototype, with SoC partners, new courses and student programs for UW and Wyoming's Community Colleges. These courses should define what the student experiences are likely to be in first years of study.
  - Implement (and receive regular feedback for advisory broad and UW leadership on) an ongoing evaluation of full implementation plan.

### **Phase 2 (Years 3 to 5) Recommendations**

19. Conduct a review of the SoC and its Dean, evaluating its progress against the strategic plan and the implementation of its commitment to the founding values, vision, and mission. Secure funding for Phase 2 in partnership with the Foundation on major, long-term fundraising from corporations and individuals, e.g.,
- Multiple named professorships (\$2+M each)
  - Graduate student scholarships (\$0.5M each)
  - Named deanship (\$5+M)
  - Named college (\$30+M)
  - Designated, named building or space (\$25-30M) to be started during this phase (completion can be later).
20. Secure a line item in the state budget for the SoC. Depending on how well Phase 1 goes, this might be in there instead.

21. Strategic planning with SoC faculty and other stakeholders to define core areas of emphasis for the SoC, such as
  - Grand Challenges
  - Growth of core areas CS/ECE/Math & Stats
  - NWSC development to drive infrastructure, economic growth, partnerships etc.
  - Identify and grow strategic application areas, e.g., Enhanced Medical Program.
22. Expand the faculty through targeted hires for areas of importance for SoC and strategic joint hires with other UW units.
23. Develop plans for which academic departments could be expanded by faculty members or research scientists to enhance overall facilities and the SoC.
24. Work with colleges and units to expand out digital connections to the SoC.

## 6. Estimated Budget for first 5 years

As indicated in the whitepaper on the SoC [2], “funding for Wyoming’s SoC will require state, philanthropic, and corporate support, along the lines of the UW School of Energy Resources or the Center of Innovation for Flow through Porous media (COIFPM).”

This report establishes a plan for the SoC. Lining up potential private and corporate support has begun and will be part of the Foundation’s campaign to support the four pillars: make UW more digital, more interdisciplinary, more inclusive, and more entrepreneurial. University funds are already being organized to plant seeds for the beginning stages of this plan. For example, state funds for the Tier I Engineering initiative, cut from the state budget, have been internally re-allocated for computing initiatives to be developed.

### Projected Annual Revenue Targets by the end of Phase 2.

#### External funding:

\$300K per SoC faculty and research scientist	7,500,000
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#### Corporate pattern program

20 partners, average contribution \$25K/year	\$500,000
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#### Tuition

2.5 classes/year, average class size 30 for each of the SoC faculty, 154/cr. hour	\$727,650
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#### Foundation

25M endowment, 4% available/year	\$1,000,000
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<b>Total projected revenue/year generated by SoC</b>	<b>\$9, 727,600</b>
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Notes:

- Revenue projections are for then end of Phase 2; it will take time and energy to ramp up to these levels of revenue.
- This represents total revenues generated by SoC activity. Not all the funding (e.g., a portion of the external funding) goes directly to SoC. Similarly, in the costs estimates below, not all the funding is incurred directly by the SoC (e.g., 50% appointments of new hires), but are charged fully to the SoC in the budgeting. So, the cost and revenues give the total estimates of costs and revenues to UW associated with the SoC.
- SoC's presence will catalyze collaborations with departments across campus, having indirect costs and and funding follow the researcher in accordance to contributions is a win for UW, and the SoC. In addition to the external funding generated by SoC faculty, there will be funding secured for UW collaborators and students who are affiliated by SoC.
- The Tier 1 Engineering Initiative identified \$450K/year/researcher as aspirational.
- Current levels of funding are around \$150K/year in CEAS
- The corporate partners program estimate is from a similar, young, program at UW-Madison's School of Computing, Data and Information Science. Partners contribute from \$5K-100K per year. Some recent UW corporate partners in the tech industry have pledge around \$100K/year for 3-5 years. Long term partnerships will play a significant role here, and often lead to significantly deeper partnerships and contributions. The value of these partnerships to students in terms of professional and career opportunities, and to developing a tech-savvy workforce in Wyoming are not included in the revenues, but should be considered as a significant contribution by the SoC.

**Projected Costs**

Chart 2 below gives the projected build out of personnel for the SoC over its first 5 years. A number in a cell represents the number of personnel of a given type that will start that year. Recruiting and hiring will take place the previous year.

Position	Phase 0	Phase 1		Phase 2			End Phase 2
	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Dean (Interim first 1-2 years)	1						1
Associate Dean	2						2
Business Manager	1						1

Office manager	1						1
State & WFD Lead	1						1
Special Projects Lead	1						1
Joint CWC-UW Computing position			1				1
UW Faculty		3					3
SoC hires			3	3			6
Cluster Hires SoC			3	3	3	3	12
Research Scientists			2	1	1		4
Graduate Assistants		5	8	7	4	3	27

**Chart 2:**

**Projected Personnel build-out of SoC**

A Visiting Scholars program will allow scholars to reside at the SoC to inform the development of the SoC, develop collaborations, and help disciplines explore ways to incorporate computing in their domains. Initially this program may be focused on scholars outside UW to help develop the SoC and its reputation. Over time this program would focus more supporting “visits” of UW faculty to allow them to plug into the SoC, explore new directions and projects for the SoC to explore.

Item	Phase 0: Summer Year 0	Phase 1: Year 1	Phase 1: Year 2	Phase 2: Year 3	Phase 2: Year 4	Phase 2: Year 5
<b>Director</b>	164010	497000	497000	497000	497000	497000
<b>Associate Deans (2)</b>	234300	710000	710000	710000	710000	710000
<b>Business manager</b>	45900	183600	183600	183600	183600	183600

<b>Administrative support for SoC</b>	17213	68850	68850	68850	68850	68850
<b>State &amp; WFD</b>	46860	142000	142000	142000	142000	142000
<b>Special Projects</b>	0	142000	142000	142000	142000	142000
<b>Joint CWC-SoC</b>	0	0	142000	142000	142000	142000
<b>Internal SoC Faculty</b>	0	319500	319500	319500	319500	319500
<b>SoC hires</b>	0	0	639000	1278000	1278000	1278000
<b>Cluster hires</b>	0	0	639000	1278000	1917000	2556000
<b>Research Scientists</b>	0	426000	639000	852000	852000	852000
<b>GRAs (1 per faculty &amp; RS)</b>	0	168034	436889	672137	806564	907385
<b>Operating budget</b>	50000	250000	375000	500000	500000	500000
<b>Start-up funds</b>	0	900000	3500000	3000000	1500000	1500000
<b>Visiting Faculty Scholars Program</b>	0	500000	500000	500000	250000	250000
<b>Computing Scholars Program</b>	0	0	160000	240000	320000	320000
<b>Total</b>	<b>394273</b>	<b>3667984</b>	<b>8436839</b>	<b>9788087</b>	<b>8811514</b>	<b>9551335</b>

**Chart 3: Estimated budget by Phase**

### **Budget Assumptions**

#### **Salaries**

All salaries include fringe benefits based on current rates.

No inflation factor is used in any parts of the budget.

The salaries of all “new” positions are fully included in the SoC budget. Many of these salaries might be part of replacements of open positions due to departures or retirements in departments.

#### **Start-ups**

### **Deans**

An interim dean will be hired in phase 0. A search for permanent dean will take place in year 1. The dean will have primary responsibility for external relations, fund-raising and developing corporate and other partnerships.

### **Associate Dean**

There will be two associate deans. One focusing on SoC's role in the Digital Pillar, and on the students, curriculum and faculty, of the SoC itself.

These will be UW faculty committed to developing the SoC and appointed in Phase 0.

### **Business Manager**

This person is critical to the success of the large undertaking and will need to be in place in Phase 0.

### **Administrative Support**

This position will assist the dean and associate deans, and SoC personnel in the day-to-day functions of the SoC.

### **State and Workforce Development Lead**

Will nurture partnerships with CCs, Wind River, K-12, and oversee SoC educational outreach activities.

### **Special Projects Lead**

Will help with the development of SoC programs (education, internships, partnerships), Interdisciplinary partnerships across campus.

### **SoC Faculty (internal)**

These will be 3-6 UW faculty committed to developing the SoC into a highly regarded research, education and innovation center. They will be joint appointments with their departments with 50% of salary paid by SoC.

### **SoC Hires (external)**

These will be hires targeted to supporting the essential computing areas of the SoC. This will be joint positions. Start-ups are estimated to be \$500K per hire on average. \$300K of this will be targeted towards building UW research infrastructure. Some of the start-up will be in kind (e.g., GA-ships, time on the NWSC). Salaries are estimated to be \$150K/year. All being out of the SoC budget.

### **Cluster Hires**

These will be awarded through a competition run by AA to foster new research expertise catalyzed by computing. Appointments will be joint. Start-ups are \$500K/hire on average.

\$300K for each hire will be designated towards building up the research infrastructure at UW (e.g. specialized AI clusters, needed experimental systems, lab equipment for robotics, etc.) The full cost is currently budgeted as an SoC costs; some of this should perhaps be recovered from open faculty lines.

### **Research Scientists**

It is anticipated, as is common in other SoC, that within a few years Research Scientists will be pulling in a significant portion of their salary (50%) from grants. The current budget does not account for this.

### **Graduate Assistants**

The budget includes one graduate student per external SoC faculty and Research Scientist hire. These could be included as part of start-up costs. Additionally, through grants SoC faculty should support for many of these (or additional) Gas. The budget doesn't account for this.

### **Computing Scholars Program**

This will provide recruitment of 8 undergraduates/year to be part of a program that pairs undergraduate students with UW faculty members to be part of computing research as early as their first year.

### **Visiting Faculty Scholars Program**

This sets aside funds to support 1-month to 1-year visits by faculty scholars to work with SoC faculty, to help programs across UW to position themselves to be more digital, etc. Initially funding is \$500K/year and tapers down to \$250K/year at the end of 5 years.

### **Short-term housing costs, long-term building needs**

The budget does not address these costs, but these will need to be considered in long-term planning.

## References

1. The new foundational skills of the digital economy, Burning Glass Technologies, 2018. [Link to file.](#)
2. E. Seidel, "Thoughts on a Broad Vision for Computing in UW and Wyoming", Fall 2020. [Link to file.](#)
3. Creating Institutional Homes for Computing: Transforming a department into a School or College, Computing Research Association, 2016. [Link to file.](#)
4. MIT Stephen A. Schwarzman College of Computing: Working Group Final Reports. [Link to files.](#)
5. Katz DS, Allen G, Barba LA *et al.* The principles of tomorrow's university, *F1000Research* 2018, **7**:1926 [Link to file.](#)
6. [Digital Pillar, Preliminary report, Link to File.](#)
7. Encouraging an inclusive computer science environment, [Link to file.](#)
8. <https://www.acm.org/diversity-inclusion/about>.

## **Appendix A**

### **List of Contributors to the SoC Preliminary Plan**

Emma Jane Alexander (Shell 3D Visualization Manager)

Gabrielle Allen (Special Assistant for Strategic Initiatives)

Mike Borowczak (Assistant Professor, Computer Science)

Craig Douglas (Professor, SER and Mathematics and Statistics)

Paul Flesher (Professor, Philosophy and Religious Studies; Director, American Heritage Center)

Bart Geerts (Professor and Head, Atmospheric Science)

Santosh Madhyanam (Director Financial Planning, ASUW)

Suresh Muknahallipatna (Professor, Electrical and Computer Engineering)

Bryan Shader (Professor, Mathematics and Statistics)

Cam Wright (Professor and Dean, College of Engineering and Applied Science)

**AGENDA ITEM TITLE: Design Consultant Contract Amendment, Law School Expansion and Renovation, Mai**

SESSION TYPE:

- Work Session  
 Education Session  
 Information Item  
 Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):  
 Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University  
 No [Regular Business]

EXECUTIVE SUMMARY:

In Fall of 2019, Administration worked with the College of Law and design consultants led by By Architectural Means of Cheyenne, Wyoming to complete a program plan and conceptual design for the renovation and expansion of the College of Law building. The project participated in the Exterior Design Advisory Committee (EDAC) process and secured approval from the Board for the exterior design of the building.

Following completion of the construction documents, modifications to the exterior design of the building were requested by members of the EDAC.

Administration requests to execute a contract amendment with By Architectural Means in the not-to-exceed amount of forty-five thousand dollars (\$45,000.00) for the requested exterior design modifications to be paid from the private funds raised for the project.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

- March 2019 – Board authorized contract negotiations with By Architectural Means of Cheyenne, Wyoming in consultation with VMDO for the Law School Expansion and Renovation.
- September 2019 – Board approved the exterior design of the facility.
- March 2020 – Board authorized a design contract amendment with By Architectural Means for previously incurred design fees to be paid from the private funds raised for the project and to proceed with the design and documentation phases of the project.
- May 2020 – Board authorized the design and documentation phase and to execute an amendment with By Architectural Means for design and construction services.

WHY THIS ITEM IS BEFORE THE BOARD:

Pursuant to UW Regulation 6-9(III)(G), the Board of Trustees shall approve all change orders to design contracts.

ACTION REQUIRED AT THIS BOARD MEETING:

Board approval for Administration to execute a contract amendment for modifications to the exterior design.

**PROPOSED MOTION:**

“I move to allow Administration to execute a contract amendment with By Architectural Means in the not-to-exceed amount of forty-five thousand dollars (\$45,000.00) for exterior design modifications to be paid from the private funds raised for the project”.

**PRESIDENT’S RECOMMENDATION:**

The President recommends approval.

**AGENDA ITEM TITLE: Contract Approval- Central Energy Plant, Cooling Tower and Sump Pump Upgrades, Mai**

SESSION TYPE:

- Work Session  
 Education Session  
 Information Item  
 Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):  
 Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University  
 No [Regular Business]

EXECUTIVE SUMMARY:

The central energy plant chiller upgrade project includes the cooling tower, sump pump and vault installation. This project provides redundancy and flexibility for the production of chilled water for campus cooling. Chilled water redundancy allows for increased energy efficiency and cooling capacity for the campus. The project includes installation of a cooling tower, enlargement of the existing sump pump, pipe runs, utilities and installation of an operational vault containing pumping and control equipment.

This project was publically bid and Arcon Contractors of Laramie, Wyoming was the successful bidder for a total construction contract amount of \$2,444,550.

The total all in budget for this project is \$3,000,000 and the funds for this project will come from Major Maintenance.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

- May 2021 – Board of Trustees approved to proceed with design and advertising of the project funded via Major Maintenance with a Design-Bid-Build delivery method and a budget not to exceed \$3,000,000.

WHY THIS ITEM IS BEFORE THE BOARD:

Pursuant to UW Regulation 6-9(III)(G), the Board of Trustees shall approve all construction contracts.

ACTION REQUIRED AT THIS BOARD MEETING:

Board approval authorizing administration to execute the contract with Arcon.

PROPOSED MOTION:

“I move to authorize Administration to execute the General Contractor contract with Arcon Contractors in the amount of \$2,444,550”.

PRESIDENT’S RECOMMENDATION:

The President recommends approval.

**AGENDA ITEM TITLE: Furniture, Fixtures and Equipment Contract for Science Initiative, Mai**

SESSION TYPE:

- Work Session  
 Education Session  
 Information Item  
 Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):  
 Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University  
 No [Regular Business]

EXECUTIVE SUMMARY:

Administration is requesting Board approval of a furniture, fixtures and equipment contract for the Science Initiative with Wyoming Office Products and Interiors.

The furniture package for the Science Initiative project was bid as a furnish and install contract. The package includes furnishings for all finished spaces including but not limited to; desks, chairs, lab stools, conference tables, accent and pre-function furnishings, and workstations. Publicly advertised and competitive bids were received on April 29, 2021 from ten contractors. Following bid review, the apparent low bidder is Wyoming Office Products and Interiors in the amount of \$1,707,341.86.

The Science Initiative project construction budget is currently \$93,086,758.00 with a total project budget of \$103,750,000.00. The project budget for furnishings is \$2,087,285.00; the overall project budget will be unchanged.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

- January 2016 – Board of Trustees approved GSG Architecture as the architect for the SI project.
- March 2017- The Exterior Design Advisory Committee was established.
- November 2017 – Board of Trustees approved the exterior design of the SI Building.
- January 2018 – Board of Trustees approved design-bid-build as the construction delivery method for the SI Building and the final exterior design of the greenhouses.
- June 2018 – Board of Trustees approved the contract for the SI Site Clearing bid package.
- September 2018 – Board of Trustees approved revising the entry into the Science Initiative and changing the delivery method to CMAR.
- December 2018 – Board of Trustees approved a change order for the site clearing contractor.
- October 2019 – Board of Trustees approved the Guaranteed Maximum Price Contract Amendment: \$74,359,220.00.
- March 2020 – Board of Trustees approved a design contract amendment: \$40,665.00.
- May 2020 – Board of Trustees approved a construction contract amendment to include the full research greenhouse scope: \$5,999,462.00.
- June 2020 – Board of Trustees approved a construction contract amendment to include the level 3 build-out, walk-in growth chambers, and several owner-requested changes: \$6,439,023.00.

- January 2021 – Board of Trustees approved a construction contract amendment to include the AV/IT package and several owner-requested changes: \$2,278,032.00.
- March 2021 – Board of Trustees approved a construction contract amendment to fund construction utility consumption: \$314,083.00.
- March 2021 – Board of Trustees approved a construction contract amendment to fund research requested lab fit up additions: \$110,635.00.
- March 2021 – Board of Trustees approved a construction contract amendment to include the Lewis St. corridor landscape phase 1 and 2 into the Science Initiative scope: \$3,586,303.00.

**WHY THIS ITEM IS BEFORE THE BOARD:**

Pursuant to UW Regulation 6-9(III)(G), the Board of Trustees shall approve all construction contracts.

**ACTION REQUIRED AT THIS BOARD MEETING:**

Board approval authorizing administration to execute the contract with Wyoming Office Products and Interiors.

**PROPOSED MOTION:**

“I move to authorize Administration to enter into contract negotiations and to execute the furniture package contract with Wyoming Office Products and Interiors in the amount of \$1,707,341.86”.

**PRESIDENT’S RECOMMENDATION:**

The President recommends approval.

**AGENDA ITEM TITLE: Bus Maintenance Facility Revised Budget and Revised GMP – Additional WYDOT Grant, Mai**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

EXECUTIVE SUMMARY:

University Transportation Services was recently notified that WYDOT supplemental grant funding was still available for the Bus Maintenance Facility project in the amount of \$1,547,005.

The approved Guaranteed Maximum Price (GMP) construction budget included the 7,940 GSF bus maintenance facility, a 12,000 GSF attached enclosed bus storage facility, and a 6,400 SF attached open-air metal canopy. The project was also bid with an alternate 16,000 GSF open-air free standing metal canopy with fire suppression, electrical and lighting to the south for additional covered bus storage and an alternate for a fuel island facility. Updated construction pricing for the south canopy alternates total \$1,485,265.

The additional WYDOT supplemental funding allows the project to accept the south canopy alternates and complete them as part of the project. The prior total Fleet and Transit Relocation budget was \$7,437,989 and the proposed total project budget with the additional WYDOT funding is \$8,984,994.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

- January 2020 – Board approved the project in an amount not to exceed \$2,779,260 from the Construction Reserve Account and authorized Design Levels II and III for a bus maintenance facility on S. 15th Street and to execute a contract with Plan One Architects for the design of the project.
- March 2020 – Board authorized the Construction Manager-at-Risk delivery method for the project.
- May 2020 – Board approved to execute an agreement with GH Phipps Wyoming, Inc. of Laramie, WY for construction management services for the project.
- September 2020 – Board authorized Administration to accept the FTA 5339(b) Grant in the amount of \$4,237,262 and authorized \$2,779,260 to come from the Construction Reserve Account, and \$421,467 from Unrestricted Operating Reserves for a total construction budget not to exceed the amount of \$7,437,989 for the project.
- January 2021 – Board authorized a contract amendment for an Initial limited scope Guaranteed Maximum Price with GH Phipps Wyoming, Inc. of \$1,322,997.00 for the pre-engineered metal building and canopy structures scope of work.
- March 2021 – Board authorized a contract amendment establishing the guaranteed maximum price with GH Phipps Wyoming, Inc. not to exceed \$5,989,703.00 and execution of an architect amendment with Plan One Architects in the amount of \$75,000 for the revised design and construction phases of the project.

**WHY THIS ITEM IS BEFORE THE BOARD:**

Pursuant to UW Regulation 6-9(III), no modification to the project budget shall be made without approval of the Board and Board approval is required to establish the Guaranteed Maximum Price.

**ACTION REQUIRED AT THIS BOARD MEETING:**

To accept the project alternates for the south open-air free standing metal canopy for the project, the administration is requesting approval from the Board to increase the overall project budget and modify the guaranteed maximum price.

**PROPOSED MOTION:**

“I move to authorize administration to increase the overall project budget from \$7,437,989 to \$8,984,994 to include construction of the south canopy and to execute a change order with GH Phipps Wyoming, Inc. for the related GMP increase.”

**PRESIDENT’S RECOMMENDATION:**

The President recommends approval.

**AGENDA ITEM TITLE: Student Success Initiatives and Investments – Carman**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:  
[Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

*Attachments are provided with the narrative—refer to Supplemental Materials Report.*

EXECUTIVE SUMMARY:

The student experience, including enhanced student success and retention efforts, are critical priorities for UW. The reduction of academic barriers (e.g., preparing students for the expectations and challenges of university academics, reducing curricular complexity, better leveraging institutional data for advising, increasing accessibility) and nonacademic barriers (e.g., reducing food insecurity, enhancing mental and physical wellness, increasing sense of belonging) are the keystones of increasing retention and completion. The Provost will describe new efforts and investments we will undertake to up our game in the student experience, provide summarized information on current efforts, and discuss gaps in current investments.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The Board has heard regular updates on student success and experience efforts, and provides valuable feedback on areas of opportunity.

WHY THIS ITEM IS BEFORE THE BOARD:

Information item.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:

N/A

**AGENDA ITEM TITLE: Consideration and Action: Trustee Meeting Schedule for 2023-2024,  
Marsh**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

EXECUTIVE SUMMARY:

Under the *Trustees Annual Schedule of Items to Approve, Discuss, or Report*, the trustees review and approve meeting schedules for the next two calendar years at each July meeting. These calendars are created using the University of Wyoming’s Academic Calendar and input from administration regarding deadlines for materials required for submission to the state, i.e. budget document and external audit reports. A regular face-to-face meeting is scheduled for every other month beginning in January, with conference call meetings scheduled during the off months. It is noted that “Special” Board of Trustees meetings may be called between regularly scheduled Board meetings for topics requiring immediate attention.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The Board of Trustees last approved meeting schedules at it July 2019 meeting in Riverton, Wyoming.

WHY THIS ITEM IS BEFORE THE BOARD:

This item is before the Board for Trustee discussion and approval.

ACTION REQUIRED AT THIS BOARD MEETING:

Board approval or disapproval of the 2023 and 2024 Trustee meeting schedules.

PROPOSED MOTION:

“I move that the UW Board of Trustees approve the 2023 and 2024 trustee meeting schedules as presented.”

PRESIDENT’S RECOMMENDATION:

N/A

## 2023 UW Board of Trustees' Meeting Schedule

**January 18-20, 2023**

(Wednesday-Friday)

[Classes scheduled to begin January 17, 2023]

**Board Meeting in Laramie**

**February 15, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

**March 22-24, 2023**

(Wednesday-Friday)

[The Legislative Session generally ends on the first Friday in March; the MWC Basketball Tournament is generally the second weekend in March – official dates TBD; Spring Break is March 13-17, 2023.]

**Board Meeting in Laramie**

**April 12, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

**May 10-12, 2023**

(Wednesday-Friday)

**Board Meeting in Laramie**

*[Commencement date TBD]*

**June 14, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

**July 11-14, 2023**

(Tuesday-Friday)

*[Business Meeting to be held Friday, July 14, 2023]*

**Board Out-of-Town Meeting**

**Location TBD**

**August 16, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

**September 13-15, 2023**

(Wednesday-Friday)

**Board Meeting in Laramie**

**October 11, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

**November 15-17, 2023**

(Wednesday-Friday)

**Board Meeting in Laramie**

**December 13, 2023 (8:00-9:30 a.m.)**

(Wednesday)

**Board Conference Call**

*[Commencement date TBD]*

**Note:** *“Special” Board of Trustees meetings may be called between regularly scheduled Board meetings for topics requiring immediate attention.*

## 2024 UW Board of Trustees' Meeting Schedule

**January 17-19, 2024**  
(Wednesday-Friday)  
*[Class start date TBD]*

**Board Meeting in Laramie**

**February 14, 2024 (8:00-9:30 a.m.)**  
(Wednesday)

**Board Conference Call**

**March 20-22, 2024**  
(Wednesday-Friday)

**Board Meeting in Laramie**

*[The Legislative Session generally ends on the first Friday in March; the MWC Basketball Tournament is generally the second weekend in March – official dates TBD; Spring Break dates TBD.]*

**April 10, 2024 (8:00-9:30 a.m.)**  
(Wednesday)

**Board Conference Call**

**May 8-10, 2024**  
(Wednesday-Friday)

**Board Meeting in Laramie**  
*[Commencement date TBD]*

**June 12, 2024 (8:00-9:30 a.m.)**  
(Wednesday)

**Board Conference Call**

**July 16-19, 2024**  
(Tuesday-Friday)

**Board Out-of-Town Meeting**  
**Location TBD**

*[Business Meeting to be held Friday, July 19, 2024]*

**August 14, 2024 (8:00-9:30 a.m.)**  
(Wednesday)  
*[Class start date TBD]*

**Board Conference Call**

**September 18-20, 2024**  
(Wednesday-Friday)

**Board Meeting in Laramie**

**October 16, 2024 (8:00-9:30 a.m.)**  
(Wednesday)

**Board Conference Call**

**November 13-15, 2024**  
(Wednesday-Friday)

**Board Meeting in Laramie**

**December 11, 2024 (8:00-9:30 a.m.)**  
(Wednesday)

**Board Conference Call**  
*[Commencement date TBD]*

***Note: "Special" Board of Trustees meetings may be called between regularly scheduled Board meetings for topics requiring immediate attention.***

**AGENDA ITEM TITLE: Trustees Annual Schedule of Items to Approve, Discuss or Report, and Modification of Trustees Bylaws, Marsh**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

EXECUTIVE SUMMARY:

The Board adopted the *Trustees Annual Schedule of Items to Approve, Discuss, or Report* at its meeting in May 2018. This schedule is reviewed and modifications to it are considered annually.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Modifications of the Trustees Annual Schedule of Items to Approve, Discuss, or Report were last considered in September 2020.

WHY THIS ITEM IS BEFORE THE BOARD:

Pursuant to Article VIII, the Bylaws may be changed or amended at any regular meeting of the Trustees by a vote of two-thirds of all the members, provided that notice of the intention to change, amend, or add to the Bylaws, in whole or part, shall have been given in the notice of the meeting or shall have been given at a preceding meeting of the Trustees.

ACTION REQUIRED AT THIS BOARD MEETING:

The Board is asked to review modifications of the Trustees Annual Schedule of Items to Approve, Discuss, or Report for consideration and action at its August 2021 meeting.

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:

N/A

Approved by Board September 17, 2020



UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report

**September**

- **Consideration and Action:** Emeritus Faculty Designation (per UW Regulation 2-11)
- **Annual Report:** A list of deleted and new Courses (per UW Regulation 2-116)
- **Annual Report:** Faculty Appointments (per UW Regulation 2-1)
- **Annual Report:** UW Foundation Investments (per MOU with Foundation)
- **Annual Report:** Expenditures Marian H. Rochelle Gateway Center Facilities Maintenance Fund (per lease agreement with UW Foundation)
- **Annual Report:** Office of Diversity, Equity and Inclusion
- **Annual Report:** Intercollegiate Athletics (per UW Regulation 3-1)
- **Annual Report:** Status of implementation of the Strategic Plan and President's Report on Accomplishments
- **Annual Report:** Vice President for Finance and Administration on new Temporarily Restricted Endowment accounts established during the past year (per Trustee Directive)
- **State of Wyoming Agency Report**
- **Annual Report:** Fall Enrollment Census Day Report
- **Annual Report:** Vice President for Finance and Administration's report on balances, transactions and investment returns for the following Trustee reserve accounts (per Trustee Directive):
  - Passenger Plane Reserve Account
  - Risk Pool/ Litigation Reserve Account
  - Residence Hall Reserve Account
  - Recruitment and Retention Reserve Account
  - Special Project Reserve Account
  - Operating Reserve Account
  - Construction Reserve Account

Commented [RL1]: Academic Affairs added this item

**October**

- Note: No scheduled topics for this month

**November**

- **Consideration and Action:** Annual external audited financial reports (per Trustee Bylaws)
- **Discussion:** UW Fee Book proposal for coming academic year
- **Discussion:** Tuition policy (Board review should occur no later than: 2019, 2023, 2027)
- **Discussion:** Legislative priorities (reported out of Legislative Committee)
- **Annual Report:** ~~Fiscal Year Budget Report~~ Fiscal Year Carryforward Report (per UW Regulation 7-10)
- **Annual Report:** Faculty Workload (per UW Regulation 2-9)

Commented [RL2]: Academic Affairs requests guidance whether the Board would prefer a verbal report, or a written report (for executive session); with a public session agenda spotlighting a few faculty with different workloads

**December**

- Note: No scheduled topics for this month

*Approved by Board September 17, 2020*



**UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report**

Approved by Board September 17, 2020



**UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report**

**January**

- ~~and Action: Housekeeping changes to UW Regulations *if necessary*~~
- **Consideration and Action:** UW Fee Book proposal for coming academic year ([per UW Regulation 7-11](#))
- **Annual Report:** Sabbaticals/leave report from Academic Affairs for ~~following previous~~ academic year ([per UW Regulation 2-16](#))
- **Annual report:** Faculty Athletic Representative (FAR)
- **Annual Report:** Vice President for Research and Economic Development
- **Discussion:** Upcoming Fiscal Year Operating Budget Assumptions and Timeline
- **Discussion:** Appointment of new Trustees
- **Information Item:** Six month budget v. actual of annual operating budget
- **Appointment of BOT officer nomination committee**

**Commented [TE3]:** Suggest adding to recurring items later in the document

**Commented [RL4]:** Per Academic Affairs; annual report in January

**February**

- *Note: No scheduled topics for this month*

**March**

- **Consideration and Action:** Appointments for the Trustees Education Initiative
- **Consideration and Action:** Salary distribution policy for the next fiscal year [if necessary]
- **Annual Election of Board Officers to be effective May 1 of the same year**
- **Report:** Spring Enrollment Census Day Report
- **Discussion:** Enrollment Management Plan to include Financial Aid, Recruitment Marketing Plan, and Transfer Initiatives ([per UW Regulation 7-11](#)) (approval at May meeting)
- **Orientation:** New trustees (if applicable)
- **Information Item:** Recommendation of 3 year Academic Calendar from University Administration and Trustee Academic and Student Affairs Committee.  
*[Note - The Board reviews and approves a 3 year academic school year calendar, with the next scheduled review and action in May 2022.]*

**April**

- April 15<sup>th</sup> – budget materials delivered to Trustee Biennium Budget Committee and Board of Trustees

**May (Board Reorganization)**

- **Consideration and Action:** Tenure, promotion, and 5-year fixed terms for faculty ([per UW Regulation 2-7](#))
- **Consideration and Action:** Annual internal audit plan (per Trustee Bylaws)
- **Consideration and Action:** 3 year Academic Calendar  
*[Note - The Board reviews and approves a 3 year academic school year calendar, with the next scheduled review and action in May 2022.]*

*Approved by Board September 17, 2020*



**UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report**

- **Consideration and Action:** Set the amount of the Deputy Treasurer's and Treasurer's bond and designate/set any other appropriate bonds (W.S. Sec. 21-3-110 a.) *[if necessary]*
- **Consideration and Action:** Designate depositories for UW funds ([W.S. §21-17-426, WY Const. Art. 15, §7](#))
- **Consideration and Action:** Master List of Academic Programs ([per UW Regulation 2-119](#))
- **Consideration and Action:** Enrollment Management Plan to include Financial Aid, Recruitment Marketing Plan, and Transfer Initiatives ([per UW Regulation 7-11](#))
- **Discussion: Tuition including preliminary administrative recommendations** ([per UW Regulation 7-11](#))
- **Information Item:** Public input on tuition recommendations for next academic year
- **Information Item:** Biennium/Supplemental Budget Timeline
- **First Trustee meeting conducted by the officers elected during preceding March meeting.**
  - Administer Oath to Board Secretary (W.S. Sec. 21-17-206) and file.
- File Conflict Disclosure from each Trustee in accordance with the Conflict Policy
- Designate committee appointments and appoint committee chairs for the following:
  - Fiscal and Legal Affairs (Sec. 7-2 Bylaws)
  - Biennium Budget Committee (Sec. 7-3 Bylaws)
  - Facilities Contracting Committee (Sec. 7-4 Bylaws)
  - Fiscal Management and Reporting Committee (Sec. 7-5 Bylaws)
  - Honorary Degrees Awards Committee (Sec. 7-6 Bylaws)
  - Vice President and Dean Search Committee (Sec. 7-8 Bylaws)
  - Academic and Student Affairs Committee (Sec. 7-9 Bylaws)
  - Research and Economic Development Committee (Sec. 7-10 Bylaws)
- Other Trustees Appointments:
  - Alumni Board
  - Foundation Board
  - Energy Resources Council
  - Cowboy Joe Club
  - Enhanced Oil Recovery Commission (Governor's Appointment)
  - Governor's Science Task Force (Governor's Appointment)

**June**

- **Consideration and Action:** Annual operating budget for the next fiscal year (per UW Regulation 7-1)

**July (Out of Town Meeting & Meeting with Legislators)**

- **Consideration and Action:** Next cycle of planning initiatives
- **Consideration and Action:** Approval and Adoption of Final Tuition Recommendations (per UW Regulation 2-200)
- **Consideration and Action:** Biennium/Supplemental Budget

*Approved by Board September 17, 2020*



**UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report**

- **Consideration and Action:** Trustees Annual Schedule of Items to Approve, Discuss, or Report
- **Consideration and Action:** Trustee Meeting Schedule for following two calendar years
- **Consideration and Action:** Annual UW Foundation fund raising priorities ([per MOU with UW Foundation](#))
- Annual review of President Performance and Contract

**August**

- *Note: No Scheduled Topics for this Month*

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**Recurring and as needed Items:**

- **Consideration and Action:** Approval of Agreements, Contracts, and Procurements (per UW Regulation 7-2) (*if necessary*) – Evans
- **Consideration and Action:** Grants and Contracts Report (per UW Regulation 5-2)
- **Amendments to Trustee Bylaws [and UW Regulations](#)**
- Discussion of items from any Trustee
- Personnel – Appointment of Academic and Non-Academic employees

**Information Item [no action, discussion or work session]**

- Capital Construction Report
- Contracts and Procurement Report (per UW Regulation 7-2)
- Foundation Monthly Giving Report

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**Annual Schedule of Events and Recognitions**

**September**

- Faculty dinner honoring newly tenured, promoted and extended term and newly appointed faculty and academic professionals

**November**

- Annual Trustees Scholarship Event/Dinner
- Joint meeting with ERC (to be considered/confirmed on an annual basis)

**January**

- Reception/dinner with Trustees and Faculty Senate

**March**

- Lunch with Trustees and Staff Senate
- Recognition of outgoing ASUW President and Faculty Senate Chair

*Approved by Board September 17, 2020*



**UW Board of Trustees  
Annual Schedule of Items to Approve, Discuss or Report**

**May**

- Commencement Dinner and Commencement/Graduation Ceremonies
- Recognition of incoming ASUW President and Faculty Senate Chair

**Commented [TE5]:** Do we want to add Honorary Degree awards for May?

**July (Out of Town Meeting)**

- Reception and dinner with Trustees and Legislators
- Community dinner with Alumni and Friends
- Recognition of incoming and outgoing Staff Senate President

**AGENDA ITEM TITLE: Approval of Contracts and Grants Report, Synakowski**

**SESSION TYPE:**

- Work Session
- Education Session
- Information Item
- Other:  
[Committee of the Whole – Items for Approval]
- Attachments are provided with the narrative.*

**APPLIES TO STRATEGIC PLAN:**

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

**EXECUTIVE SUMMARY:**

The Division of Research and Economic Development provides a list of all Contract and Grants awarded to the University of Wyoming. This report provided data on a monthly basis. Attached is a list of all research grants and contracts awarded during fourth quarter of FY21.

**PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:**

At each meeting the Board approves or disapproves the Contract and Grants Report.

**WHY THIS ITEM IS BEFORE THE BOARD:**

UW Regulation 5-2 requires that all research grants, contracts and gifts be accepted or rejected by the Board.

**ACTION REQUIRED AT THIS BOARD MEETING:**

Board approval or disapproval of the Contract and Grants Report.

**PROPOSED MOTION:**

I move to approve the Contract and Grants Report as presented to the Board.

**PRESIDENT'S RECOMMENDATION:**

The President recommends approval.

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
Alltech	21,978.00	Berit Bangoura	Veterinary Science	In vivo parasite propagation to obtain bovine Elmeria species oocysts
American Iron and Steel Institute	25,847.00	Michael Barker	Civil & Architectural Engineering	Short Span Steel Bridge Alliance
Chapman University	73,384.00	Daniel Laughlin	Botany	Applying Trait-Based Models to Achieve Restoration Targets in Rangelands
Clackamas County Children, Family, and Community Connections	21,500.00	Emily Grant	Wyoming Survey & Analysis Center	Clackamas County Partnerships for Success (PFS) 2019 Grant Evaluation
Department of Education	19,018.00	Sandra Kingsley	Student Educational Opportunity	Upward Bound PY 2020 - 2021
Department of Education	7,239,545.00	Alexander Kean	General University Operations	UW CARES ACT HEERF 2 Institutional Costs
Department of the Army	12,994.00	Virginia Paige	Ecosystem Science & Management	Upper Missouri River Basin Plains Snowpack and Soil Moisture Monitorin Station CLIN 0002
Department of the Army	1,304.00	Virginia Paige	Ecosystem Science & Management	Upper Missouri River Basin Plains Snowpack and Soil Moisture Monitoring Station CLIN 0003
Forest Service (USDA)	13,500.00	Ian Abernethy	Wyo Natural Diversity Database	Integrated Monitoring in Bird Conservation Regions in Wyoming
Handix Scientific Inc.	28,481.00	Jeffrey French	Atmospheric Science	Highly Accurate Measurements of Cloud Droplets using the Small-Angle Light Scattering Spectral Analyzer (SALSSA) Probe
Health Resources and Services Administration/DHHS	735,200.00	David Jones	Laramie Clinic	Educational Health Center of Wyoming: New Access Point 2021-2022
Health Resources and Services Administration/DHHS	110,000.00	David Jones	Laramie Clinic	New Access Point - Substance Abuse 2021-2022
National Housing Endowment	15,000.00	Gideon Jacobs	Civil & Architectural Engineering	Home Building Education Leadership Program (NAHB)
National Institute of Food and Agriculture/Department of Agriculture	1,085,058.00	Barbara Rasco	Agriculture Experiment Station	Hatch-Regular Capacity FY21
National Institute of Food and Agriculture/Department of Agriculture	614,886.00	Barbara Rasco	Agriculture Experiment Station	Hatch-Multistate Capacity FY21
National Institute of Food and Agriculture/Department of Agriculture	37,543.00	Kelly Crane	UW Extension	University of Wyoming Smith-Lever RREA FY21
National Institute of Food and Agriculture/Department of Agriculture	223,259.00	Melinda Meuli	UW Extension	University of Wyoming Extension - EFNEP (FY21)
National Institute of Food and Agriculture/Department of Agriculture	1,394,430.00	Kelly Crane	UW Extension	University of Wyoming Extension Smith-Lever 3(b) & 3(c) FY21
National Institute of Food and Agriculture/Department of Agriculture	187,110.00	Barbara Rasco	Agriculture Experiment Station	McIntire-Stennis Capacity FY21
National Institute of Food and Agriculture/Department of Agriculture	21,176.00	Barbara Rasco	Agriculture Experiment Station	Animal Health and Disease Research Capacity, FY21
National Institute of Standards & Technology/Technology Administration/DOC	570,000.00	Rocky Case	Manufacturing Works	Manufacturing-Works (The Wyoming MEP) at the University of Wyoming - Year 5
National Institutes of Health/DHHS	287,194.00	Daniel Wall	Molecular Biology	Self-nonsel self recognition and multicellularity in myxobacteria

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
National Institutes of Health/DHHS	325,125.00	James Pru	Animal Science	Regulation of endometrial proliferation by the PGRMC family
National Park Service/Department of the Interior	33,600.00	Bryan Shuman	Geology & Geophysics	UWNPS Research Center Support, 2019-2020
National Renewable Energy Laboratory (NREL)	70,000.00	Michael Stoellinger	Mechanical Engineering	Weather Research and Forecasting (WFR) Modeling for Tools Assessing Performance
National Science Foundation	14,746.00	Lars Kotthoff	Computer Science	RI: Small: Robust Performance Models
National Science Foundation	600,000.00	Mike Borowczak	Computer Science	RET Site: WySTACK - Supporting Teachers And Computing Knowledge
Sitka Gear	20,000.00	Matthew Kauffman	Wyoming Coop Unit	Evaluating the benefit of multiple migratory tactics in the world's longest migrating mule deer herd
Strike Consulting	940,626.60	Virginia Paige	Ecosystem Science & Management	Upper Green River Demand Management Demonstration Projects Task Order 2
U.S. Fish & Wildlife Service/Department of the Interior	40,034.00	Bonnie Heidel	Wyo Natural Diversity Database	F.E. Warren Air Force Base Threatened and Endangered Species
U.S. Geological Survey/Department of the Interior	47,169.81	Anna Lisa Chalfoun	Wyoming Coop Unit	RWO-205 Weather Variability and Sagebrush Songbird Demography
Various Sponsors	400.00	Jill Kline	Small Business Development Center	Program Income for FY18 SBDC SBA
Various Sponsors	62,583.37	David Jones	Laramie Clinic	New Access Point - Program Income 2020-2022
Various Sponsors	6,420.49	David Jones	Laramie Clinic	New Access Point - Program Income 2021-2022
Various Sponsors	348.00	Christine Hime	Family & Consumer Sciences	Departmental Research Support
Various Sponsors	1.00	Christine McKibbin	Psychology	Geriatrics Workforce Enhancement Program (GWEP) – Program Income
Various Sponsors	8,109.64	Rocky Case	Manufacturing Works	Program Income - NIST Year 4
WY Animal Damage Management Board	45,000.00	Kevin Monteith	Wyoming Coop Unit	Summer Nutrition, Disease, or Predation? Quantifying causes of Poor Lamb Survival in Northwest Wyoming
WY Animal Damage Management Board	30,000.00	Kevin Monteith	Wyoming Coop Unit	Effects of Predation on Mule Deer in the Wyoming Range Following the Devastating 2016-17 and 2018-19 Winters FY2021
WY Dept of Agriculture	20,000.00	Myrna Miller	Wyoming State Veterinary Laboratory	Rabies surveillance in the State of Wyoming
WY Dept of Transportation	218,750.00	Khaled Ksaibati	Civil & Architectural Engineering	Wyoming Technology Transfer Center 2021
WY Dept of Transportation	37,500.00	Khaled Ksaibati	Civil & Architectural Engineering	Wyoming Local Technical Assistance Center 2021
WY Dept of Transportation	115,582.00	Khaled Ksaibati	Civil & Architectural Engineering	Developing Pavement Marking Management Plans for Accommodating Advanced Vehicle Technologies in Wyoming
Wyoming Game and Fish Department	10,000.00	Matthew Kauffman	Wyoming Coop Unit	Evaluating the influence of wind energy on the movement, distribution, and habitat quality of pronghorn

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
Wyoming Game and Fish Department	2,000.00	Matthew Kauffman	Wyoming Coop Unit	Documenting Mule Deer Movement, Season Ranges, and Habitat Use in the Bighorn Mountains FY21
Wyoming Military Department	172,146.74	Riley Bernard	Zoology & Physiology	Special Status Bat Species at Camp Guernsey - Northern Long-eared Bats in Wyoming

Externally Funded Projects 15,558,549.65

CARES funding 0.00

Student Financial Aid 0.00

all other externally funded projects 15,558,549.65

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
American Iron and Steel Institute	13,000.00	Michael Barker	Civil & Architectural Engineering	Short Span Steel Bridge Alliance
Association of Public & Land Grant Universities	1,000.00	Anne Alexander	Provosts Office	Curricular Analytics and Equity
Bat Conservation International, Inc	3,500.00	Anna Lisa Chalfoun	Zoology & Physiology	Inter- and Intra-Annual Use of Maternal Roosts by Female Northern Long-Eared Bats
Battelle Energy Alliance	94,032.00	Mike Borowczak	Computer Science	Red Teaming Artificial Intelligence Laboratory Directed Research and Development
Bureau of Land Management/Department of the Interior	119,424.00	Jeffrey Beck	Ecosystem Science & Management	WY Atlantic Rim Greater Sage-grouse Population and Habitat Study RM CESU
CaaMTech, Inc.	28,571.00	Elliott Hulley	Chemistry	Hydrolysis Kinetics and H/D Exchange of Aromatic Esters of Psilocin
Centers for Disease Control and Prevention/DHHS	85,518.00	David Jones	College of Health Sciences Deans Office	Medicare Cost Report Payments for the Casper and Cheyenne Residency Programs to Encounter Rate of Services Provided on their Annual Clinic Costs Reports
Defense Advanced Research Project Agency	776,610.00	Thomas Boothby	Molecular Biology	Utilizing Intrinsically Disordered Proteins and co-solutes to induce reversible biostasis in human whole blood
Department of Education	562,385.00	Sandra Kingsley	Student Educational Opportunity	Upward Bound PY 2021-2022
eXtension Foundation	24,178.00	Amanda Marney	UW Extension	WY UWE Vaccine Up
Health Resources and Services Administration/DHHS	96,750.00	Canyon Hardesty	Wyoming Institute for Disabilities WIND	Wyoming Family to Family Health Information Center 2021-2022
Health Resources and Services Administration/DHHS	634,380.00	Christine McKibbin	Psychology	Geriatrics Workforce Enhancement Program (GWEP) - Core
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	42,000.00	Rick Weathermon	Anthropology	Recovery of lost aircrew from a World War II B24J aircraft in Istria, Croatia
Howard Hughes Medical Institute	30,000.00	Rachel Watson	Chemistry	2021 IE3LC - Rachel Watson
Idaho State University	19,610.64	Bradley Carr	Geology & Geophysics	Facilitation of Surface Geophysical Data Collection within the Reynolds Creek Critical Zone Observatory near Boise, Idaho and a Research Site, near Pocatello, ID.
Kansas State University	8,257.00	Johnathan Despain	UW Extension	4-H Military Partnership subaward from KSU from DOD for F.E. Warren Air Force Base
Kansas State University	26,000.00	William Stump	Plant Sciences	Great Plains Diagnostic Network-Wyoming Component (16-17)
National Aeronautics & Space Administration	77,034.00	Hannah Jang-Condell	Physics & Astronomy	Transporting Planet-Forming Material Over the Protoplanetary Disk Lifetime
National Aeronautics & Space Administration	175,000.00	Shawna McBride	Physics & Astronomy	Wyoming NASA EPSCoR Research Infrastructure Development (RID) Proposal: FY 2019-2021
National Aeronautics & Space Administration	158,168.00	Zachary Lebo	Atmospheric Science	19-ATDM19-0075 Two-way momentum coupling between hydrometeors and small-scale air motions: Effects on precipitation and drop size distributions

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
National Cattlemen's Beef Association	34,606.24	Cody Gifford	Animal Science	A scoping review of low carbohydrate diets with dietary animal protein components on cardiometabolic risk cardiometabolic risk
National Institute of General Medical Sciences/NIH/DHHS	328,153.00	Robert Seville	INBRE Program	Wyoming IDEa Networks for Biomedical Research Excellence Phase 4 (INBRE 4) - Year 2
National Institutes of Health/DHHS	216,750.00	Qian-Quan Sun	Zoology & Physiology	Delaying cognitive decline in mouse models of Alzheimer's disease via near-infrared light optogenetics
National Park Service/Department of the Interior	98,900.97	Jesse Alston	Zoology & Physiology	GRPL CESU: Monitoring the Response of Bats to the Arrival of White Nose Syndrome at Jewel Cave National Monument (JECA)
National Science Foundation	46,000.00	Corey Tarwater	Zoology & Physiology	NSF Graduate Research Fellows Program (GRFP) - Samuel Case
National Science Foundation	499,999.00	David Anderson	Chemistry	Parahydrogen Matrix Isolation Infrared Spectroscopy and Kinetics
National Science Foundation	46,000.00	Erica Belmont	Mechanical Engineering	NSF Graduate Research Fellows Program (GRFP) - Luke McLaughlin
National Science Foundation	121,241.00	Erica Belmont	Mechanical Engineering	CAREER: Bridging the Gap From Biomass Burning to Atmospheric Pollutants
National Science Foundation	46,000.00	Hannah Jang-Condell	Physics & Astronomy	NSF Graduate Research Fellows Program (GRFP) - Cristilyn Gardner
National Science Foundation	16,996.00	Jacob Goheen	Zoology & Physiology	Collaborative Research: Integrating the core-satellite and resource-breadth hypotheses in small mammal communities: field tests of a macroecological pattern
National Science Foundation	46,000.00	Jay Norton	Mechanical Engineering	NSF Graduate Research Fellows Program (GRFP) - Hannah Rodgers
National Science Foundation	375,829.00	Jesse Gatlin	Molecular Biology	Collaborative Research: MODULUS: Data-Driven Discovery for Mechanisms of Nuclear Dynamics and Scaling
National Science Foundation	46,000.00	Merav Ben-David	Zoology & Physiology	NSF Graduate Research Fellows Program (GRFP) - Emily Quallen
National Science Foundation	46,000.00	Michael Brotherton	Physics & Astronomy	NSF Graduate Research Fellows Program (GRFP) - Theodora Esperanza Zastrocky
National Science Foundation	274,610.00	Simone Runyon	Geology & Geophysics	Processes Influencing Critical Element Enrichment in Alkaline Magmatic Systems
National Security Agency	125,000.00	Andrea Burrows	Computer Science	GenCyber Wyoming Distributed Cowpokes
National University of Ireland, Galway	65,671.00	Patrick Johnson	Chemical Engineering	Development of a rapid, highly sensitive, handheld Raman-based device for detection of SARS-CoV-2 and serological responses against SARS-CoV-2
Pilot Hill Inc.	103,500.00	James Fried	Dining	Fence analysis and maintenance on eastern and northern boundary
Reaction Engineering International	23,000.00	Steven Carpenter	Enhanced Oil Recovery Institute	Topic 2a Hardening of high performance computing software tools developed by the Office of Advanced Scientific Computing Research-CCUS

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
Rocky Mountain Elk Foundation	30,000.00	Joseph Holbrook	Haub School of Environment & Natural Resources	Colorado Elk Recruitment and Response to Human Recreation
Rossiter Masters, LLC	5,000.00	Amy Banic	Computer Science	3D Printing and Design work for a Wearable Band with Nodes to Stretch Ligaments and Offer Pain Management
Sandia National Laboratories	130,000.00	Jonathan Naughton	Mechanical Engineering	Rotor Wake and Validation and Verification Activities for Wind Energy
Shell Brasil Petroleo LTDA	297,000.00	Mohammad Piri	Center of Innovation for Flow through Porous Media	Experimental and Numerical Studies of Two-phase Flow Dynamics in Carbonate Reservoir Core Samples
State of Colorado Department of Natural Resources	20,000.00	Joseph Holbrook	Haub School of Environment & Natural Resources	Spatio-temporal Effects of Human Recreation on Elk Behavior
University of Colorado Denver	133,801.70	Bistra Anatchkova	Wyoming Survey & Analysis Center	Conduct telephone interviews of Colorado residents to validate accuracy of recall of vaccination status.
University of Nevada, Las Vegas	76,556.00	Robert Seville	INBRE Program	Clinical and Translational Research Infrastructure Network (MW-CTR-IN) Year 8 - Carron
University of Notre Dame	112,752.00	Donald Jarvis	Molecular Biology	Engineering optimized N-glycosylation in the silkworm silk gland protein expression system
University of Utah	18,500.00	David Brown	Libraries Administrative Office	Region 4, Mountain West Medical Library and Network of the National Library of Medicine Training Office
Various Sponsors	924.00	Christine Hime	Family & Consumer Sciences	Departmental Research Support
Various Sponsors	3,999.00	Christine McKibbin	Psychology	Geriatrics Workforce Enhancement Program (GWEP) – Program Income
Various Sponsors	68,799.70	David Jones	Laramie Clinic	New Access Point - Program Income 2021-2022
Various Sponsors	269.69	David Jones	Laramie Clinic	New Access Point - Program Income 2020-2022
Various Sponsors	2,500.00	Jennifer Thompson	College of Agriculture & Natural Resources Deans Office	VAR SPON WY BACKYARDS TO BARNYARDS AN EDUCATIONAL NEWSLETTER FOR WY SMALL ACRE ENTHUSIAST THOMPSON
Various Sponsors	201.00	Paul Kunkel	Transit & Parking Services	Transpark Farebox Revenue
Various Sponsors	5,000.00	Rocky Case	Manufacturing Works	Program Income - NIST Year 4
Various Sponsors	1,500.00	Rocky Case	Manufacturing Works	Program Income- NIST Year 5
Various Sponsors	7,500.00	Sandra Root-Elledge	Wyoming Institute for Disabilities WIND	VARIOUS SPONSORS UAP TRAINING
WY Dept of Agriculture	49,759.84	Jeremiah Vardiman	UW Extension	Wyoming Grape Growers Conferences
WY Dept of Education	10,000.00	Curtis Biggs	College of Education Deans Office	Teacher Cadet Curriculum Training
WY Dept of Health	739,796.20	Christine McKibbin	Psychology	Chronic Disease Prevention Network Regional Coordinators - Region 1
WY Dept of Health	216,968.40	Christine McKibbin	Psychology	Chronic Disease Prevention Network Regional Coordinators - Region 2

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
WY Dept of Transportation	154,025.00	Khaled Ksaibati	Civil & Architectural Engineering	Managing Pavement Friction of Wyoming's Roads Considering Safety
WY Dept of Transportation	4,237,262.00	Paul Kunkel	Transit & Parking Services	Transit Maintenance and Storage Facility
WY Water Development Office	186,269.00	Greg Kerr	VP for Research & Economic Development Office	Wyoming Water Research Program 2021-2025
WY Weed and Pest Council	2,000.00	Mark Andersen	Wyo Natural Diversity Database	Data Sharing and Management between WYNDD and WY Weed and Pest
Wyoming Game and Fish Department	55,290.00	Annika Walters	Wyoming Coop Unit	Genetic Assessment of Yellowstone Cutthroat trout across the Bighorn GMU
Wyoming Game and Fish Department	50,000.00	Jerod Merkle	Zoology & Physiology	Big Game Disturbances Analysis
Wyoming Game and Fish Department	173,500.00	Kevin Monteith	Haub School of Environment & Natural Resources	Assessing Mineral Licks and Predation as Alternative Mechanisms to Control CWD in the West
Wyoming Humanities Council	14,100.00	Bistra Anatchkova	Wyoming Survey & Analysis Center	Conduct an Online Wyoming Statewide Survey To Measure Civic Engagement
Wyoming Humanities Council	2,000.00	Emilene Ostlind	Haub School of Environment & Natural Resources	Imagining Wyoming's Future: A Youth Vision for 2030
WyoTech	7,477.00	Chrystelle Khalaf	Economics	Economic Impact Analysis

Externally Funded Projects	<u>12,348,424.38</u>
CARES funding	0.00
Student Financial Aid	0.00
all other externally funded projects	12,348,424.38

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
Administration for Community Living/DHHS	158,836.00	Christine McKibbin	Psychology	Wyoming ADRC Vaccine Access Community Support Funding
Administration for Community Living/DHHS	0.65	Robin Barry	Psychology	Enhancing Dementia-Capable Wyoming Through Community Partnerships
Administration for Community Living/DHHS	59,701.00	Sandra Root-Elledge	Wyoming Institute for Disabilities WIND	Understanding and mitigating barriers to vaccine access, Wyoming
Battelle Energy Alliance	10,000.00	Mike Borowczak	Computer Science	Improving Cryptographic Algorithm Resistance to Side Channel Attacks
Bureau of Land Management/Department of the Interior	51,331.43	Brent Ewers	Botany	Blowout Penstemon Ecology Research
Centers for Disease Control and Prevention/DHHS	79,559.00	David Jones	College of Health Sciences Deans Office	Medicare Cost Report Payments for the Casper and Cheyenne Residency Programs to Encounter Rate of Services Provided on their Annual Clinic Costs Reports
Colorado State University	130,365.00	Shane Murphy	Atmospheric Science	CDPHE JPL Coordinated Campaign (C3)
Department of Education	9,421,784.00	Debra Hintz	Scholarships & Financial Aid	University of Wyoming - CARES Act HEERF III ARP
Forest Service (USDA)	50,000.00	Kristie Maczko	Ecosystem Science & Management	Sustainable Rangelands Roundtable 2019-2024
Forest Service/Department of Agriculture	13,120.00	Andrew Kniss	Plant Sciences	Further monitoring long-term effects of indazaflam on Dalmatian toadflax and desirable vegetation in invaded ecosystems
Health Resources and Services Administration/DHHS	428,272.00	Beth Robitaille	Medical Education Administration Division	Residency Training in Primary Care Year 2
Health Resources and Services Administration/DHHS	82,758.00	David Jones	College of Health Sciences Deans Office	Quality Improvement 2021-2022
Health Resources and Services Administration/DHHS	2,715,625.00	David Jones	College of Health Sciences Deans Office	American Rescue Plan Act Funding for Health Centers
Health Resources and Services Administration/DHHS	490,177.00	Nancy McGee	Laramie Clinic	Nurse Education, Practice, Quality, and Retention - Interprofessional Collaborative Practice Year 2
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	128,211.00	Rick Weathermon	Anthropology	Recovery of lost aircrew from a World War II B24J aircraft in Istria, Croatia
Monument Prevention Coalition	12,000.00	Rodney Wambeam	Wyoming Survey & Analysis Center	Evaluation of the HPP program in Nebraska
National Institute of General Medical Sciences/NIH/DHHS	6,140.59	Brian Cherrington	INBRE Program	The Effects of Citrullination on Tubulin Function
National Institute of General Medical Sciences/NIH/DHHS	39.74	Kyle De Young	INBRE Program	A Pilot Test of Mood and Circadian Rhythm Mechanisms Driving Binge Eating - Year 2
National Institute of General Medical Sciences/NIH/DHHS	35,401.78	Maysam Mousaviraad	INBRE Program	Computational FSI Modeling for Heart Failure Treatment with Titin Manipulation - Year 2
National Park Service/Department of the Interior	30,000.00	Bryan Shuman	Geology & Geophysics	UWNPS Research Center Support, 2019-2020
National Science Foundation	87,868.00	Daniel Dale	Physics & Astronomy	REU Site: Wyoming Astronomy

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
National Science Foundation	169,783.00	Kenneth Sims	Geology & Geophysics	Collaborative Research: Volatile sources, eruption triggers, and magma ascent rates for mafic alkaline magmas at Nyiragongo and Nyamulagira volcanoes, DR Congo, East African Rift
Pilot Hill Inc.	24,808.00	Chrystelle Khalaf	Economics	The economic impact of the new Pilot Hill recreational land purchase and development in Albany County, WY
Regents of the University of Idaho	39,682.00	John Ritten	Agriculture & Applied Economics	Community Security in Beef Production Sustainability
Sandia National Laboratories	8,696.00	John Pierre	Electrical & Computer Engineering	Small Signal Stability Analysis and Estimation
Small Business Administration	755,556.00	Jill Kline	Small Business Development Center	Small Business Development Center CY21 State Office
Teton Raptor Center	5,466.48	Jerod Merkle	Zoology & Physiology	Golden Eagle Winter Habitat Modeling
The Nature Conservancy	19,600.00	Melanie Murphy	Ecosystem Science & Management	Ecological Effects of BDAs at Red Canyon Ranch Research
U.S. Department of Energy	214.73	John Kaszuba	Geology & Geophysics	Campbell-Stone - Integrated Characterization of CO2 Storage Reservoirs on the Rock Springs Uplift Combining Geomechanics, Geochemistry, and Flow Modeling
University of California, Berkeley	35,000.00	Maohong Fan	Petroleum Engineering	Efficient Recovery of Rare Earth using Methylobacterium Exorquens
University of Colorado Denver	48,623.00	Brian Cherrington	Zoology & Physiology	Neutrophil Extracellular Traps in the Lung and Development of Rheumatoid Arthritis Related Autoimmunity and Arthritis
University of Utah	4,000.00	Ben Kern	Kinesiology & Health	Project Physical Education and Least Restrictive Environment
Various Sponsors	21,409.62	David Jones	Laramie Clinic	New Access Point - Program Income 2021-2022
Various Sponsors	16,511.11	David Jones	Laramie Clinic	340B Pharmacy- Program Income 2021-2022
Various Sponsors	446.58	Jill Kline	Small Business Development Center	Program Income for FY18 SBDC SBA
Various Sponsors	380.00	Jill Kline	Small Business Development Center	Market Research Center Program Income
Various Sponsors	1,633.65	Mike Moore	Agriculture Experiment Station	Grass Seed Research Account
Various Sponsors	1,500.00	Rocky Case	Manufacturing Works	Program Income- NIST Year 5
WY Arts Council	3,198.26	Andrea Graham	American Studies & History	Folk Arts and Folklife Outreach at UW (Folklorist) - FY18
WY Dept of Agriculture	45,309.00	James Heitholt	R&E Center Powell	Screening and Developing Dry Bean Lines for Reduced Input-High Profitability Systems
WY Dept of Agriculture	351,752.50	James Heitholt	Agriculture Experiment Station	Operations and Maintenance of the Wyoming State Seed Laboratory 2021-2022
WY Dept of Agriculture	42,109.00	Kristina Hufford	Ecosystem Science & Management	Assessing Native Legumes for Environmental Landscaping and Horticulture Through Plant Toxicity Surveys and Field Studies

Sponsor	Award Funding Amount	Principal Investigator	Organization	Award Name
WY Dept of Agriculture	49,739.00	Md Islam	Plant Sciences	Evaluation of Papa Criolla Potato in Rotation with Pea in Wyoming
WY Dept of Education	16,945.51	Canyon Hardesty	Wyoming Institute for Disabilities WIND	National Instructional Materials Access Center (NIMAC): Accessible Educational Materials (2017)
WY Dept of Education	13,600.00	Lindsey Freeman	School of Teacher Education	Curriculum for Agricultural Science Education (CASE)
WY Dept of Health	30,000.00	Matthew Gray	Psychology	State of Wyoming Rape Prevention Education Program Evaluation
WY Division of Victims Services	65,000.00	Emily Grant	Wyoming Survey & Analysis Center	Violence Against Women Implementation Planning
WY Governor's Office	17,000.00	Lusha Tronstad	Wyo Natural Diversity Database	2021 Governor's Office Surveys for Rare Bees in Wyoming
Wyoming Game and Fish Department	51,814.00	Annika Walters	Wyoming Coop Unit	Evaluating the effects of Brook Stickleback on native nongame fishes
Wyoming Game and Fish Department	74,085.00	Annika Walters	Wyoming Coop Unit	Genetic Assessment of Yellowstone Cutthroat trout across the Bighorn GMU
Wyoming Game and Fish Department	300,000.00	Kevin Monteith	Haub School of Environment & Natural Resources	Wyoming Range Mule Deer: The Legacy of Long-Term Research
Wyoming Game and Fish Department	164,000.00	Kevin Monteith	Haub School of Environment & Natural Resources	Whiskey Mountain Bighorn Sheep - The West Side Story
Wyoming Game and Fish Department	81,000.00	Kevin Monteith	Haub School of Environment & Natural Resources	Mule Deer, Mountain Lions, and Chronic Wasting Disease - Advancing the Understanding of Transmission Dynamics and the Role of Predation
Wyoming Game and Fish Department	43,433.00	William Fetzer	Zoology & Physiology	North Platte Reservoirs Stocked Salmonids Fate
Wyoming Game and Fish Department	4,299.00	Zachary Wallace	Wyo Natural Diversity Database	Coordinated Statewide Flammulated Owl Surveys
Wyoming Humanities Council	2,000.00	Rebecca Steele-Holberg	Modern & Classical Languages	World Languages Day 2021
Wyoming Military Department	80,000.00	Rick Weathermon	Anthropology	Geoarchaeological Assessment in the North Training area, Camp Guernsey, WY - FY2021

Externally Funded Projects 16,579,784.63

CARES funding 9,421,784.00

Student Financial Aid 0.00

all other externally funded projects 7,158,000.63

**Total Funding for FY21 4th Quarter 44,486,758.66**

TOTAL CARES FY21 Q4 9,421,784.00

TOTAL Student Financial Aid FY21 Q4 0.00

TOTAL Externally Funded FY21 Q4 35,064,974.66

Total Funding for FY21 4th Quarter

44,486,758.66

Month	Total Funding	CARES	Student Financial Aid	Other External	
Jul-20	32,052,515.86	11,388,894.23	883,089.00	19,780,532.63	
Aug-20	47,306,854.63	37,300,000.00	983,348.77	9,023,505.86	
Sep-20	47,616,927.25	10,661,843.00	292,469.07	36,662,615.18	
Oct-20	25,318,289.97	1,100,000.00	16,502,734.26	7,715,555.71	ran through 10/21/20
Nov-20	34,616,733.43	12,408,999.00	330,119.97	21,877,614.46	
Dec-20	15,240,072.26	8,496,252.00	27,928.39	6,715,891.87	ran through 12/31/2020
Jan-21	7,542,556.36	0.00	0.00	7,542,556.36	
Feb-21	32,485,181.09	0.00	17,288,864.00	15,196,317.09	
Mar-21	5,883,033.14	0.00	2,102,060.00	3,780,973.14	
Apr-21	15,558,549.65	0.00	0.00	15,558,549.65	
May-21	12,348,424.38	0.00	0.00	12,348,424.38	
Jun-21	16,579,784.63	9,421,784.00	0.00	7,158,000.63	ran through 6/21/21
	<u>292,548,922.65</u>	<u>90,777,772.23</u>	<u>38,410,613.46</u>	<u>163,360,536.96</u>	
		31%	13%	56%	

**AGENDA ITEM TITLE: WWAMI Requests for Modification to Contract Repayment Provisions, Jones**

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

- Attachments are provided with the narrative—refer to Supplemental Materials Report.*

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
  - Driving Excellence
  - Inspiring Students
  - Impacting Communities
  - High-Performing University
- No [Regular Business]

EXECUTIVE SUMMARY:

Pursuant to their contracts with the University of Wyoming, WWAMI students who enter into full-time practice within the state of Wyoming for a period of three years receive loan repayment forgiveness. WWAMI alumni may also request a modification to their contract regarding loan repayment forgiveness for part-time professional practice or for other professional pursuits deemed by this Board as the equivalent of practice in the state of Wyoming. In the past, this Board has determined that no requests by WWAMI students to reduce loan repayment based on telehealth or practice that is not physically located in the state of Wyoming may be approved by Administration.

Administration has received information that some Wyoming healthcare entities across the state are without critical services and therefore Wyoming citizens are in jeopardy of not receiving needed services that could be provided through telehealth services. The Administration is requesting that this Board consider modifying its prior directive to allow for the President to authorize telehealth practice to count towards reduction of WWAMI student loan repayment when the following criteria are met: (1) the Wyoming business verifies that no in state providers are able to provide a critical healthcare service after conducting appropriate searches for qualified Wyoming resident practitioners; (2) the healthcare entity has identified a qualified candidate that is a WWAMI alumni; and (3) the WWAMI alumni is unable or unwilling to relocate to Wyoming but is willing to provide telehealth services in exchange for WWAMI loan reduction or forgiveness. These requests would continue to be considered on a case-by-case basis and viewed with the best interests of the citizens of Wyoming as a main factor.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

February 19, 2020: this Board denied a request to execute an amendment to a WWAMI repayment contract to allow telemedicine practice to be deemed equivalent of practice in Wyoming.

WHY THIS ITEM IS BEFORE THE BOARD:

Any requests from a WWAMI student to modify the terms of a repayment contract with the University must be approved by the Board of Trustees.

ACTION REQUIRED AT THIS BOARD MEETING:

Board approval or disapproval of a standing modification to delegate to the President the ability to decide on a case-by-case basis to allow for telehealth practice to count towards reduction of WWAMI student loan repayment when specific criteria are met and there are no other qualified Wyoming resident physicians who can provide the same service.

**PROPOSED MOTION:**

I move to make a standing motion to delegate to the President the ability to decide on a case-by-case basis to allow for telehealth practice to count towards reduction of WWAMI student loan repayment when specific criteria are met and there are no other qualified Wyoming resident physicians who can provide the same service.

**PRESIDENT'S RECOMMENDATION:**

The President recommends approval.

**AGENDA ITEM TITLE: Approval of modifications to UW Regulation 6-9 (Project Development Policy and Procedure for UW Capital Construction Projects), Brown/Evans**

SESSION TYPE:

- Work Session  
 Education Session  
 Information Item  
 Other:

[Committee of the Whole – Items for Approval]

*Attachments are provided with the narrative.*

APPLIES TO STRATEGIC PLAN:

Yes (select below):

- Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University

No [Regular Business]

EXECUTIVE SUMMARY:

At the September 2016 Board of Trustees meeting, the Board approved review by UW Administration of UW’s current regulatory structure, to include the following:

- 1) Phasing out presidential directives;
- 2) Defining regulation versus policy/procedure;
- 3) Creating a new “look” and format for the regulations; and
- 4) Updating the substance of the regulations, policies, and procedures as needed, including determining whether there are any substantive gaps.

At the January 2017 Board of Trustees meeting, the University proposed 12 sections for the new ***Governing Regulations and Standard Administrative Policies and Procedures website.***

**Section 1:** Governance and Structure

**Section 2:** Academic Affairs

**Section 3:** Athletics

**Section 4:** Diversity and Equal Opportunity

**Section 5:** Employment and Ethics

**Section 6:** Facilities

**Section 7:** Finance and Business

**Section 8:** Information Technology

**Section 9:** Research and Economic Development

**Section 10:** Safety and Security

**Section 11:** Student Affairs

**Section 12:** University Relations

The new structure will involve three levels of policies:

- 1) Governing Regulations (Level A)
- 2) Standard Administrative Policies and Procedures (Level B)
- 3) Department/Unit Administrative Policies and Procedures (Level C)

Attached is the following Section 6 Facilities regulation (with a summary of the proposed modifications):

- **UW Regulation 6-9 (Project Development Policy and Procedure for UW Capital Construction Projects):** Changes to align with 2020 legislation requiring the University to implement W.S. 9-2-3006 and modifications to streamline processes.

Per the routing process for UW Regulations, the proposed modifications to the regulations were provided to the President's Cabinet, Deans and Directors, Faculty Senate, Staff Senate, ASUW, and the Internal Auditor. Feedback from the Office of Diversity, Equity and Inclusion was incorporated.

The Trustees Regulation Committee will discuss this item at the July 2021 Board of Trustees meeting and recommend full Board action, if appropriate.

**PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:**

None.

**WHY THIS ITEM IS BEFORE THE BOARD:**

UW Regulation 1-101 requires that the Board approve modifications to UW Regulations.

**ACTION REQUIRED AT THIS BOARD MEETING:**

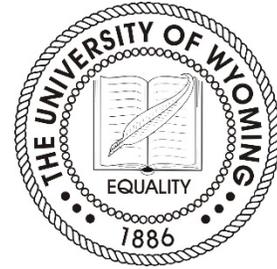
Board approval, modification, or disapproval of the recommended modifications to the Regulations.

**PROPOSED MOTION:**

"I move to authorize modifications to UW Regulation 6-9, as presented to the Board"

**PRESIDENT'S RECOMMENDATION:**

Incorporated Facilities Contracting Committee edits/comments 2-12-21  
Incorporated Regulation Committee feedback 5-19-21  
Incorporated campus feedback 6-23-21 (see highlighted section)



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## UNIVERSITY OF WYOMING REGULATIONS

**Subject:** Project Development Policy and Procedure for UW Capital Construction Projects

**Number:** UW Regulation 6-9

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### I. PURPOSE

~~Each Capital Construction Project shall be subject to this process. Effective March 22, 2018, the revised~~ To provide a process for developing capital construction projects shall be as set forth below at the University of Wyoming.

### II. DEFINITIONS

**Capital Construction Project:** Projects that consist of new construction, demolition, renovation and capital renewal of or to any University building or facility and any other improvement necessary for the University building or facility, major maintenance as defined in W.S. § 16-6-101(a)(v) and major building and facility repair and replacement as defined in W.S. § 21-15-109(a)(iii).<sup>1</sup>

**Renovations:** Projects that include the process of improving a broken, damaged or outdated structure, which includes but is not limited to restoration, refurbishment, reconstruction, remodeling, updating, modernization, and refitting.

**University Capital Construction Project:** Those projects that require planning levels I, II, and II under Wyoming law (W.S. § 9-5-108). These projects are funded in whole or in part by state funds or University Pledged Revenues and are generally provided as a result of a budget request approved for submission by/to the Board of Trustees. For purposes of this ~~Policy~~ Regulation, Capital Construction Projects include new construction in any amount and renovations, major maintenance or other capital construction projects for more than \$500,000.<sup>1</sup>

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<sup>1</sup> This definition for Capital Construction Project is consistent with Wyoming statutes and covers a wide range of projects that fall under Section III of this Regulation. A portion of projects that meet this definition will also meet the criteria for a University Capital Construction Project and are governed by the specific University processes set forth within Sections IV through VI of this Regulation.

Incorporated Facilities Contracting Committee edits/comments 2-12-21  
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Incorporated campus feedback 6-23-21 (see highlighted section)

### III. CAPITAL CONSTRUCTION PROJECTS

The solicitation and performance of Capital Construction Projects for the University that do not meet the definition of University Capital Construction Project shall be done in compliance with all applicable laws, University Regulations, and University processes and procedures which shall be administered by the Senior Vice President for Finance and Administration or designee. The procurement of Capital Construction Projects at the University shall be in compliance with W.S. § 9-2-3006.

### IV. UNIVERSITY CAPITAL CONSTRUCTION PROJECTS

All University Capital Construction Projects shall be subject to the processes set forth below.

~~Renovations: Projects that include the process of improving a broken, damaged or outdated structure, which includes but is not limited to restoration, refurbishment, reconstruction, remodeling, updating, modernization, and refitting.~~

### ~~III. POLICY~~

#### **A. Planning**

University Capital Construction Projects shall be developed by the Division of Administration in consultation with campus and other university constituencies and approved by the Board of Trustees. The Guiding Principles in Section ~~IVV~~ shall apply to this policy and procedure. ~~If an external consultant is used during the No planning stage, the Vice President for Finance and Administration shall recommend, through the Facilities Contracting Committee, to the Board of Trustees the firm to be selected. No contract shall be executed for consultant services except upon proceed without~~ prior approval ~~by of~~ the Board of Trustees.

#### **B. Project Concept and Intent**

For University Capital Construction Projects, UW's Planning Team, as appointed and charged by the UW Vice President for Finance and Administration or designee, shall meet with the primary campus department(s) requesting the project to create a "Statement of Need" or "Project Vision Statement" with the essential purpose and basic elements of the program requirements for the project. The Statement of Need shall include basic information, e.g. "this building renovation is planned to renovate the engineering building with program elements to assist UW in achieving Tier 1

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Engineering status.” This document may be relatively short with only the basic information regarding the purpose and functionality of the project. ~~If an external consultant is used during the project concept and intent stage, the Vice President for Finance and Administration shall recommend, through the Facilities Contracting Committee, to the Board of Trustees the firm to be selected. No contract shall be executed for consultant services except upon prior approval by the Board of Trustees, and shall be approved by the Board of Trustees.~~

**C. Level ~~I~~ (Reconnaissance Study)**

For University Capital Construction Projects, the Facilities Planning and Construction Management Office will prepare the Level I reconnaissance study. UW typically does not request state funds for Level I reconnaissance studies, but pays for the work from available resources. The Facilities Planning and Construction Management Office shall work with the Planning Team (which shall consist solely of university employees and appropriate stakeholders) to develop the Level I reconnaissance study. The Division of Administration shall ensure that stakeholders working with the Planning Team include a variety of constituencies, including policymakers and at least one member of the Board of Trustees. ~~The Vice President for Finance and Administration shall advise the Board of Trustees of the membership of the Planning Team and the stakeholders identified to work with the consultant, prior to the Facilities Construction Management Office commencing work.~~

The Level I reconnaissance study shall include all information required by Wyoming law (W.S. § 9-5-108).

Upon completion of the Level I reconnaissance study, the Vice President for Finance and Administration or designee shall review and may direct further work or modifications to the Document. If the Vice President or designee, after review, approves the Document, the Vice President or designee, subject to the approval of the President, will submit it to the Facilities Contracting Committee of the Board for review, prior to consideration by the Board of Trustees.

**D. Level II (Feasibility Study)**

Upon completion of the Level I reconnaissance study and review and approval by the Board of Trustees, the Vice President for Finance and Administration, subject to the approval of the President, shall submit a recommendation for funding for a Level II feasibility study to the Facilities Contracting Committee for review prior

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**Incorporated campus feedback 6-23-21 (see highlighted section)**

to consideration by the Board of Trustees. This typically includes a recommendation for a state budget request for funding.

If funding is secured for a Level II feasibility study, a Consultant will be selected through an RFP/RFQ process with criteria including a focus on planning and conceptual estimating to achieve an appropriate initial or preliminary budget in advance of design drawings. ~~The Vice President for Finance and Administration shall recommend, through the Facilities Contracting Committee, to the Board of Trustees the firm to be selected. No contract shall be executed for Level II services except upon prior approval by the Board of Trustees.~~

The Vice President for Finance and Administration or designee shall select the firm and enter into contract negotiations with the selected firm. The negotiations shall be based on contract templates with terms and conditions that have been reviewed by the Office of General Counsel. No contract shall be executed for Level II services except upon recommendation of the Facilities Contracting Committee of the Board of Trustees and prior approval by the full Board of Trustees.

The Consultant shall prepare a Level II feasibility study in collaboration with the Planning Team and stakeholders. ~~The Board of Trustees shall be advised of any changes in the Planning Team and stakeholders compared with those who were engaged in the Level I reconnaissance study process.~~

The Level II feasibility study shall include all information required by Wyoming law (W.S. § 9-5-108) and additionally shall include the following: a program of spaces required in the facility; the functional, adjacency and proximity requirements for each space; conceptual illustrations, including floor plans as required for conceptual construction cost estimating; and the anticipated project budget. The Level II feasibility study shall also identify target dates for occupancy and operational use of the project. Further:

1. In the Level II feasibility study, the project requirements—including time and the space requirements, primary building systems, and unique attributes of the various program elements—shall be identified through meetings with the UW Planning Team, stakeholders, and other UW staff, as appropriate. The project requirements and space program shall determine the total assignable square feet (ASF) of new space to be included in the proposed project.
2. If the project involves a new building, the Level II feasibility study shall also include analysis of the appropriate location for the building. The Vice President

**Incorporated Facilities Contracting Committee edits/comments 2-12-21**  
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for Finance and Administration or designee shall develop a recommendation for location for the building in consultation with campus and external constituencies. The Vice President for Finance and Administration or designee, subject to the approval of the President, shall submit a recommendation for location for the new building to the Facilities ~~Construction~~Contracting Committee of the Board for review, prior to consideration by the Board of Trustees. Depending upon the nature and complexity of the project, this recommendation may be submitted prior to completion of the Level II feasibility study in accordance with paragraph 3. The location of any new building must be approved by the Board of Trustees.

3. UW shall utilize external consultants with planning/design experience in the particular building type and the regional construction market to estimate the anticipated design and construction costs for the building being considered, including costs associated with landscaping. This information—together with the anticipated durations—shall be used to establish the Initial Project Budget and Initial Project Schedule.
4. The project cost estimate may be prepared by an independent cost estimating ~~subconsultants~~sub-consultant of the Consultant hired by UW, and shall be reviewed and adjusted as appropriate in collaboration with the Planning Team and, once approved, shall become the Initial Project Budget for the project.
5. In developing the Initial Project Budget, the Consultant and their cost estimating sub—consultant, if any, shall use their expertise and relevant knowledge of the local construction market along with recognized industry publications, government labor and material cost indexes, available costs of similar projects by peer institutions, the knowledge of the ~~Facilities~~Planning and Construction Management Office, stakeholder input, and any illustrations, examples, drawings or other information available or developed as part of their contract deliverables. The construction cost estimate will also include adjustments for cost escalation as appropriate based upon the approximate schedule for construction.
6. The Level II feasibility study shall include an estimate of the additional operations and maintenance costs for the project when it is fully operational.
7. The construction cost component of the Initial Project Budget is used as a basis for estimates for the cost of other components. The following are typical percentages of the construction and other project costs for the listed

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components, but may vary depending upon the project:

- 15% Owner's Construction Contingency
- 5% Owner's Bid Contingency
- 10% Design Fees (Including CMAR Preconstruction Services fee, if CMAR is used)
- 4% Furniture, Furnishings & Equipment (FF&E)
- 3% Audio-Visual/Information Technology Equipment and Cabling (AV/IT)
- 0.75% Moving Expenses
- 4% Administrative Expenses, including but not limited to:
  - a. Owner's Consultants (Geotechnical Engineer, Site Surveyor, Industrial Hygienist, Commissioning Authority, Quality Control Engineer);
  - b. City and state plan review fees;
  - c. ~~Facilities~~Planning and Construction Management Office staff time allocated to -the project;
  - d. University Operations staff time and materials; and
  - e. Temporary utilities.

The Initial Project Budget would be presented in categories similar to the example below:

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Construction Budget	\$	-
Construction/GMP	\$	-
Owner Contingency for Bid Alternates	\$	-
<i>Total Construction Budget</i>	\$	-
Soft Costs	\$	-
Owner Construction Contingency	\$	-
Design & Project Administration Costs	\$	-
Furniture, Furnishings & Equipment (FF&E)	\$	-
AV/IT	\$	-
<i>Total Soft Costs</i>	\$	-
Total Project Budget	\$	-

**E. Level III (Design and Construction) – Funding**

Upon completion of the Level II feasibility study, and after review and approval by the Vice President for Finance and Administration or designee, the Vice President for Finance and Administration or designee, subject to approval of the President, shall submit a recommendation for funding to the Facilities ~~Construction~~Contracting Committee for review prior to submission to the Board. The recommendation shall include both sources of funding for the project and a proposed project budget. This typically includes a recommendation for a state budget request for funding.

**F. Level III (Design and Construction) – Design**

If Level III design and construction funding is secured, the Vice President for Finance and Administration or designee, subject to approval of the President, shall submit a recommendation for a construction delivery method to the Facilities Contracting Committee for review prior to submission to the Board: for approval. Of the construction delivery methods permitted by law (W.S. § 16-6-701), the following are approved by the Board for use at the University:- Design-bid-build; Construction Manager-at-Risk (CMAR); and Design-Build.

~~After the Board approves the construction delivery method, the~~The Vice President for Finance and Administration or designee shall ensure that a Request For Qualifications (RFQ), Request For Proposals (RFP) process is used to select the firm(s) that will design the project. Except in unusual circumstances, the design

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process shall not commence unless adequate funding for construction of the project has been secured.

The Vice President for Finance and Administration or designee, subject to approval of the President, shall ~~submit a recommendation for selection of~~ select a design firm ~~to the Facilities Contracting Committee for review prior to submission to the Board. After the Board approves the recommendation, the Vice President for Finance and Administration~~ shall pursue negotiations with ~~such~~ the selected firm. The negotiations shall be based on contract templates with terms and conditions that have been reviewed by the Office of General Counsel ~~and approved by the Board of Trustees.~~ No ~~agreement~~ contract shall be executed ~~until the Vice President for Finance and Administration has consulted with Level III design services except upon recommendation of~~ the Facilities Contracting Committee ~~as regards the terms of the agreement. The Committee may request that the Board of Trustees and prior approval by the full Board review and approve the agreement prior to its execution of Trustees.~~

Prior to execution of the agreement, the Vice President for Finance and Administration or designee shall establish a project budget which shall be submitted to the Facilities Contracting Committee for review prior to submission to the Board for approval. Once the Board approves the project budget, no modifications ~~to that which would increase the construction or~~ project budget shall be made without the approval of the Board.

When work under the design agreement commences, the Vice President for Finance and Administration or designee shall designate a project manager who will be responsible for all communications on behalf of the university with the design firm. The Vice President for Finance and Administration or designee shall also establish in writing a chain of command – organizational chart for the design phase of each project. This organizational chart shall identify lines of authority and reporting responsibilities. The project manager shall follow the guidelines in Section ~~V~~ VI. The Planning Team shall serve as an advisory group to the project manager. The Vice President for Finance and Administration or designee shall keep the Facilities Contracting Committee apprised of progress of the design process.

**The design process shall have the following guiding principles:**

1. The exterior design of the facility and associated landscaping shall be consistent with campus design standards pursuant to the UW Historical Preservation Plan, Long Range Development Plan, Design Guidelines and Construction Standards

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and any other relevant documentation.

2. The facility will be constructed as to comply with all applicable code requirements, including the Americans with Disabilities Act.
3. The facility will be designed so that operations and maintenance can be accomplished effectively and efficiently.
4. The facility shall meet the program requirements envisioned by the principal users of the facility.

#### **Interior Design and Program:**

On all University Capital Construction Projects, the Vice President for Finance and Administration or designee shall provide a report to the Facilities Contracting Committee ~~as regards~~regarding the development of the interior design. Items to be included in the report are as follows:

1. Floor plans reflecting the approved layout by the Planning Team.
2. A narrative demonstrating why the layout meets the expectations of those anticipated programs which will occupy the space.
3. A narrative demonstrating how the design reflects the intent outlined in the levels I and II documents, thus meeting the intent by which the State or University funded the project.

The interior design and program must be reported to the Facilities Contracting Committee prior to proceeding with the Design Development phase of design. ~~The Vice President for Finance and Administration or designee shall submit the final interior design to the Facilities Contracting Committee for review prior to submission to the Board for approval, and in~~ no case shall the ~~previously~~ approved interior design be modified ~~from that approved by the Board of Trustees~~ except upon prior approval of the Board.

#### **Exterior design advisory committee:**

~~On all new building construction projects or major renovations subject to this policy;~~On all University Capital Construction Projects, the Vice President for Finance and Administration shall appoint an Exterior Design Advisory Committee,

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in consultation with the Board's Facilities Contracting Committee. Landscaping for all projects in excess of \$500,000 shall be referred to the Exterior Design Committee for review and input. The Exterior Design Committee shall have members as follows:

1. One member of the Board of Trustees, appointed by the President of the Board
2. One member of the Wyoming Legislature
3. One member of the Division of Administration
4. One representative of the community who is not an employee of the University
5. One representative of the unit that will primarily use the building
6. ~~If~~When utilizing private funds ~~are used to fund the project~~, one representative of the UW Foundation.

The Exterior Design Committee shall be chaired by the appointee who is a member of the Board of Trustees. The Vice President for Finance and Administration or designee shall provide staff support for the committee and such information as the Committee requires. This Committee shall meet with the design firm and provide input to the design firm on the exterior design of the project buildings. The design of all new or renovated buildings shall be consistent with the existing historical buildings on campus and incorporate elements consistent with the UW Historic Preservation Plan and any applicable Long Range Development Plan/s. The Committee shall hold at least one community/public meeting to seek input. The design firm shall meet with the Exterior Design Committee prior to submitting any exterior design, even in draft form, to the Facilities Contracting Committee or the University.

The design firm shall take the Committee's input into consideration in designing the exterior of the building and associated landscaping. The design firm shall document all departures from the Historic Preservation Plan creating the exterior building design and landscaping. The proposed exterior design and landscaping shall be submitted to the Facilities Contracting Committee of the Board of Trustees for review and approval. This process may require multiple iterations of the design at no additional cost to the University prior to the approval. Once the Committee approves the exterior building design and landscaping, the balance of the design process shall thereafter continue. If the design team proposes to modify the

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approved exterior design and landscaping for any reason, the design team shall immediately notify the Project Manager in writing and provide the Project Manager a detailed description of those proposed modifications. ~~In no case shall the previously approved exterior design and landscaping be modified from that approved by the Board of Trustees except upon prior approval of the Board.~~

The Vice President for Finance and Administration or designee shall submit the final exterior design to the Facilities Contracting Committee for review prior to submission to the Board for approval, and in no case shall the approved exterior design be modified except upon prior approval of the Board.

The exterior design advisory committee process must be complete prior to the design team commencing with the Design Development phase of design.

#### **G. Level III (Design and Construction) – Construction**

The selection of a contractor and agreement for construction services will reflect the construction delivery method approved by the Board. The Vice President for Finance and Administration or designee shall ensure that a competitive process is used to select the firm(s) that will construct the project. The construction process shall not commence unless adequate funding for construction of the project has been secured.

The Vice President for Finance and Administration or designee, subject to approval of the President, shall ~~submit a recommendation for selection of~~select a construction firm ~~to the Facilities Contracting Committee for review prior to submission to the Board.~~ In accordance with paragraph F of this policy, if CMAR or Design-Build is the approved delivery method, the Vice President for Finance and Administration or his designee shall pursue negotiations with such firm. The negotiations shall be based on contract templates with terms and conditions that have been reviewed by the Office of General Counsel ~~and approved by the Board of Trustees.~~ If design-bid-build is the approved delivery method, award will be determined by the lowest responsive and responsible bid. No ~~agreement~~contract shall be executed ~~until the Vice President for Finance and Administration has consulted with the construction~~ except upon recommendation of the Facilities Contracting Committee as regards the terms of the agreement. The Committee may request that of the Board review of Trustees and approve the agreement prior to its execution approval by the full Board of Trustees.

The Vice President for Finance and Administration shall also establish in writing a

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chain of command – organizational chart for the construction phase of each project. This organizational chart will identify lines of authority and reporting responsibilities. The project manager shall follow the guidelines in Section ~~V~~VI.

### **Construction process**

For all construction delivery methods, the following apply:

1. The Board of Trustees must approve all construction contracts for University Capital Construction Projects, including the Guaranteed Maximum Price (GMP), prior to authorization to proceed to construction. Except in unusual circumstances, the GMP shall be based on approximately 90% completion of construction documents.
2. No changes resulting in a use of the owners' contingency without prior approval of the Trustees can be made except for changes which are not more than \$50,000.00. However, in no event shall the cumulative total of all changes result in an amount which exceeds 40% of the owner's contingency fund without board approval.
3. No project components which are designated as contingency funds shall be expended without the prior approval of the Vice President for Finance and Administration or designee. The Vice President for Finance and Administration or designee shall keep the Facilities Contracting Committee apprised of the extent to which these funds are expended.

### **H. Contract Documents**

All Contracts and Agreements for design and construction of University Capital Construction Projects as defined in this ~~Policy~~Regulation shall (1) be consistent with and incorporate material provisions of this ~~Policy~~Regulation; and (2) include a provision that the contractor acknowledges it has read and understands this Policy.

## **IV.V. UNIVERSITY OF WYOMING CAPITAL CONSTRUCTION GUIDING PRINCIPLES**

These guiding principles are intended to address issues which have arisen during recent construction projects. They are intended to be the initial set of guiding principles for University Capital Construction Projects as defined within the Policy and are expected to be modified, refined and adapted as UW proceeds with construction projects.

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- A. The exterior design of the facility and associated landscaping shall be consistent with campus design standards pursuant to the UW Historical Preservation Plan. The ~~A&E~~Architect and Engineer shall focus its objectives to achieve a varied but cohesive architectural style that enhances the character of the University and respects its history.
- B. The building shall be located and sited consistent with the current UW Long Range Development Plan.
- C. Facilities will incorporate today's most advanced thinking in construction design, programmatic design, and sustainability, while providing flexibility for programmatic growth, new technologies and long term use and functionality of the facility.
- D. Investments in facilities will demonstrate wise stewardship of funds, taking full advantage of opportunities to reduce costs through standardization, shared resources and institutional collaboration.
- E. Anticipate and provide plans to address infrastructure requirements of the campus in the most efficient and least intrusive manner possible.
- F. ~~Each construction project~~Each University Capital Construction Project shall have its own guiding principles developed by the college or unit intended to address the programmatic and functionality of the proposed facility which supplement, but not deviate from, these guiding principles for that specific project. The college or unit shall consult with the Office of Diversity, Equity and Inclusion in developing these guiding principles. ~~The~~During the project concept and intent phase and prior to approval of the Statement of Need or Project Vision Statement (see section IV.B.), the Vice President for Finance and Administration or designee shall submit the project specific guiding principles shall be submitted to the Facilities ConstructionContracting Committee for review and approval. Once reviewed and approved, theseand the Board of Trustees as an information item. These two sets of principles will be reviewed at the start of each design meeting to ensure the design reflects the principles.

## **V.VI. UNIVERSITY OF WYOMING CAPITAL CONSTRUCTION PROJECTS PROJECT MANAGEMENT GUIDELINES**

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The following guidelines shall be incorporated by the University Project Manager into the management of all ~~major construction projects~~ University Capital Construction Projects:

- A. The University Project Manager shall maintain a document continuously tracking outstanding/ unresolved issues for the project. The document shall contain the following information:
  - 1. Issue number
  - 2. Description of the outstanding item
  - 3. Responsible party
  - 4. Date created
  - 5. Date required
  - 6. Date resolved
  
- B. The University Project Manager shall create a project list serve that identifies all individuals associated with each project. This list shall include the following information:
  - 1. Name
  - 2. Firm/ Organization
  - 3. Role
  - 4. Phone number
  - 5. Email address
  
- C. The University Project Manager shall host and manage a project document sharing website. The site shall be accessible by all parties included on the project list serve. The site shall be updated weekly with the most current documents. The website, at a minimum, shall contain the following documents:
  - 1. Meeting minutes
  - 2. An open items/ issues log
  - 3. Audio recordings of all design and construction meetings
  - 4. Current design/ construction documents
  - 5. Value engineering/ cost control logs
  - 6. Project list serve

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**Responsible Division/Unit:** Division of Administration

**Source:** None

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**Links:** <http://www.uwyo.edu/regs-policies>

**Associated Regulations, Policies, and Forms:**

**History:**

UW Regulation 1-102(I)(B), Attachment H approved by the UW Board of Trustees July 2015

Revisions adopted September 2015

Revisions adopted January 2016

Revisions adopted March 2018

UW Regulation 6-9 adopted 9/14/2018 Board of Trustees meeting (previously UW Regulation 1-102(I)(B), Attachment H)

**AGENDA ITEM TITLE: Service Contract and Procurement Reports, Evans**

SESSION TYPE:

- Work Session  
 Education Session  
 Information Item  
 Other:  
[Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC PLAN:

- Yes (select below):  
 Driving Excellence  
 Inspiring Students  
 Impacting Communities  
 High-Performing University  
 No [Regular Business]

*Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Per UW Regulation 7-2 (Signature Authority), unless otherwise limited by UW Regulation or reserved by the Board of Trustees, the President shall have authority to approve and/or sign University contracts, federal contracts, agreements, memorandums of understanding, and procurements that involve an external party, require consideration (paid or received) valued less than \$1,000,000 (one-time or in aggregate), and for which the term is less than five years. The President may delegate this authority to University Officers for such contracts, federal contracts, agreements, memorandums of understanding, and procurements that require consideration (paid or received) valued less than \$500,000 (one-time or in aggregate) and for which the term is less than five years.

As required by the Regulation, attached are the following reports:

- 1) Service Contracts (including contracts, federal contracts, agreements, and memorandums of understanding) valued at \$50,000 or above (one-time or in aggregate) from April 16 – June 15, 2021
- 2) Procurements valued at \$50,000 or above (one-time or in aggregate) from April 16 – June 15, 2021

Service contract workflow

Per Presidential Directive 3-2014-1 (Signature Authority), the President can delegate signature authority to University officers for service contracts valued less than \$500,000 (one-time or in aggregate) and for which the term is less than five years.

Procurement workflow

Cost Center Managers (business manager level or designee) approve all purchases, and are the final approvers for purchases of \$99,999 or less. Deans/Associate Vice Presidents are the final approvers for purchases between \$100,000 and \$249,999. Vice Presidents are the final approvers for purchases between \$250,000 and \$499,999. The President is the final approver for purchases between \$500,000 and \$999,999. The Board of Trustees approves purchases of \$1,000,000 and above.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Standing information item at each in-person Board of Trustees meeting.

**WHY THIS ITEM IS BEFORE THE BOARD:**

Per UW Regulation 7-2 (Signature Authority), at each regular meeting of the Board of Trustees (excluding conference calls), the President shall provide a written report to the Board of Trustees identifying each contract, federal contract, agreement, memorandum of understanding, or procurement valued at \$50,000 or above (one-time or in aggregate) signed by the President or designee under this provision.

**ACTION REQUIRED AT THIS BOARD MEETING:**

N/A. Information Only.

**PROPOSED MOTION:**

N/A. Information Only.

**PRESIDENT'S RECOMMENDATION:**

N/A. Information Only.

### UW Regulation 7-2 (Signature Authority) Contracts Board Report - April 16, 2021 - June 15, 2021

Contract Number	Contract Header Name	Contract Type	Department	Supplier	Signed Date	Agreed Amount	Signer Name	Signer Job Title
24003KonicaMinoltaAugust2017	Konica Minolta Amendment 1	Services Contract	Auxiliary Services	Konica Minolta	5/17/21	\$330,000.00	Neil Theobald	Senior VP, Admin & Finance
22001HuronApril2021v2	Academic Assessment and Metric Development	Services Contract	AVP of Fiscal Administration	Huron Consulting Services	5/3/21	\$148,500.00	David Jewell	Deputy VP for Finance
12205MountainMeadowWoolMill-May2021	Mountain Meadow Wool Mill LP	Services Contract	College of Agriculture & Natural Resources	Mountain Meadow Wool	5/25/21	\$60,000.00	Barbara Rasco	Dean of AGNR
13181-Thermo_Electron_North_America_LL C-Sims-21-05	13181-Thermo_Electron_North_America_LL C-Sims-21-05	Services Contract	College of Arts & Sciences	Thermo Electron North America LLC	6/2/21	\$122,248.70	Daniel Dale	Assoc Dean/Professor
13261-HealthTechS3-Aug2019	AGREEMENT FOR SERVICES BETWEEN THE UNIVERSITY OF WYOMING AND HEALTHTECHS3	Services Contract	College of Arts & Sciences	HealthTechS3	5/4/21	\$66,500.00	Daniel Dale	Assoc Dean/Professor
14001-REMI-May21	REMI Software	Services Contract	College of Business	Regional Economic Models Inc	5/25/21	\$56,000.00	David Sprott	Dean/Professor
15111ACSD1June2021	Memorandum of Understanding Between The University of Wyoming And Albany County School District #1	Services Contract	College of Education	Albany County School District 1	4/27/21	\$50,000.00	Leslie Rush	Interim Dean/Professor /Executive Director
15102-Carlisle-Jan2021	Lauren Carlisle	Services Contract	College of Education	Carlisle, Lauren L.	6/10/21	\$72,500.00	Leslie Rush	Interim Dean/Professor /Executive Director
16105-Yiqun Yin-March 2021	Agreement for Services	Services Contract	College of Engineering & Applied Science	Yin, Yiqun	4/19/21	\$90,000.00	Cameron Wright	Dean/Professor
17014-AscendLearning-June 2018	Medhub Amendment to Service Agreement	Services Contract	College of Health Sciences	Assessment Technologies Institute, LLC	6/1/21	\$64,800.00	David Jones	Dean
17104Del Real, FrankJuly2019	Frank Del Real Attending Agreement	Services Contract	College of Health Sciences	Del Real, MD, Frank	4/15/21	\$100,000.00	David Jones	Dean
17104Visualutions,invVer2July2020	Amendment #1 Revenue Management Services Agreement	Services Contract	College of Health Sciences	Visualutions Inc	6/7/21	\$450,000.00	Neil Theobald	Senior VP, Admin & Finance
18003LexisNexisApril2021	LexisNexis	Services Contract	College of Law	LexisNexis a div of Reed Elsevier Inc	5/19/21	\$189,015.00	Klinton Alexander	Dean/Professor
18003LexisNexisMay2021	Lexis+	Services Contract	College of Law	LexisNexis a div of Reed Elsevier Inc	5/13/21	\$52,890.27	Klinton Alexander	Dean/Professor
18003DigitalCommonsApril2021	Digital Commons	Services Contract	College of Law	bepress	5/3/21	\$69,163.00	Klinton Alexander	Dean/Professor
11001_OutlawOil_Apr2021	11001_OutlawOil_Apr2021	Services Contract	Enhanced Oil Recovery Institute	Outlaw Oil and Gas, LLC	4/20/21	\$200,000.00	Diana Hulme	Assoc VP, Research
70430HoptocopterFilmsApril2021	Agreement for Services-Hoptocopter Films	Services Contract	Governmental & Community Affairs	Hoptocopter Films	5/19/21	\$100,000.00	Chad Baldwin	Assoc VP, Comm&Mkting
23001-EverFi-May 2021	EVERFI Services Agreement	Services Contract	Human Resources	EverFi, Inc.	5/18/21	\$178,869.00	William Mai	VP of Government Relations
40003-Zoom MSA-Sept 2019	Amendment Form Number: Q1018553	Services Contract	Information Technology	Zoom Video Communications Inc	6/14/21	\$122,081.11	Robert Aylward	Vice President
40003-Oracle iASEE-April 2021	Oracle Ordering Document	Services Contract	Information Technology	Oracle America, Inc.	4/19/21	\$194,969.07	Robert Aylward	Vice President
90201 McNeese State May 2021	Athletic Contest Agreement	Services Contract	Intercollegiate Athletics	McNeese State University	5/18/21	\$65,000.00	Matthew Whisenant	Deputy Director
90202NewHorizonsApril2021	Charter Agreement	Services Contract	Intercollegiate Athletics	New Horizons Travel	4/28/21	\$428,400.00	Billy Sparks	Sr Assoc Ath Dir/Business Ops
90201 Arkansas Pine Bluff May 2021	Athletic Contest Agreement	Services Contract	Intercollegiate Athletics	University of Arkansas	5/18/21	\$75,000.00	Matthew Whisenant	Deputy Director
90202 Colorado Boulder May 2021	Athletic Event Agreement	Services Contract	Intercollegiate Athletics	University of Colorado	5/16/21	\$850,000.00	Harry Seidel	President
90201 Denver University May 2021	Athletic Contest Agreement	Services Contract	Intercollegiate Athletics	University of Denver	5/18/21	\$75,000.00	Matthew Whisenant	Deputy Director
10101-AdmitHub-Aug2020Amend	AdmitHub Order Form	Services Contract	Provost	AdmitHub Inc	6/13/21	\$148,000.00	Robert Aylward	Vice President
28350-TerraDottaContract-April2021	Terra Dotta Contract 2021-2024	Services Contract	Provost	Terra Dotta LLC	5/17/21	\$51,963.00	Robert Aylward	Vice President



UW Regulation 7-2 (Signature Authority) Procurement Board Report - April 16, 2021 - June 15, 2021

PO Date	Supplier Name	Line #	Description	Quantity	Line Unit Price	Total Line Price	Total PO Amount	Department	Last Approver	Last Approver Title	Approval Date
04/19/2021	Vindum Engineering Inc	1	VP-12K-HC-HT-T VP-12K Vindum Continuous High Temperature Pulse-Free Flow Positive Displacement Pump - Hastelloy C-276, 0.1% Accuracy Transducer	1	27,446.50	27,446.50		Center of Innovation for Flow through Porous Media	Polk, Shannon	Chief of Staff, HBRF Operations	04/18/2021
04/19/2021	Vindum Engineering Inc	2	VP-12K-HC-HT-T VP-12K Vindum Continuous High Temperature Pulse-Free Flow Positive Displacement Pump - Hastelloy C-276, 0.1% Accuracy Transducer	1	27,446.50	27,446.50	54,893.00	Center of Innovation for Flow through Porous Media	Polk, Shannon	Chief of Staff, HBRF Operations	04/18/2021
04/19/2021	Johnson Controls Inc.	2	CELL MODEM & CELL SERVICE FOR UP TO A YEAR	5	600.00	3,000.00		Facilities Construction Mgt	Bryant, Darcy	Deputy Director, Business Serv	04/16/2021
04/19/2021	Johnson Controls Inc.	1	SNE NETWORK AUTOMODEMMATION ENGINE	5	10,264.28	51,321.38	54,321.38	Facilities Construction Mgt	Bryant, Darcy	Deputy Director, Business Serv	04/16/2021
04/20/2021	SEAL Analytical Inc.	6	Digestion granules 500g p/n 8032178	1	72.00	72.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/20/2021	SEAL Analytical Inc.	4	Cooling stand for 50 place tube rack	1	503.00	503.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/20/2021	SEAL Analytical Inc.	5	Teardrop Stoppers, glass, pk of 50	1	613.00	613.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/20/2021	SEAL Analytical Inc.	3	Annual Service contract including on site PM visit	1	4,510.00	4,510.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/20/2021	SEAL Analytical Inc.	2	SEAL BD50 Block Digestion System	1	6,548.00	6,548.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/20/2021	SEAL Analytical Inc.	1	AQ400 Automated Multi-Chemistry Discrete Analyzer Package	1	50,425.00	50,425.00	62,671.00	Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	04/20/2021
04/26/2021	PerkinElmer Health Sciences, Inc.	1	Element analyzer - 2400 Series II - Column Switching - 120V	1	52,234.80	52,234.80	52,234.80	School of Energy Resources Directors Office	Ferrell, Rachel	Dir, Business Operations	04/26/2021
04/28/2021	ConvergeOne Inc	6	Isilon A200 per attached bid	1	23,043.95	23,043.95		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	7	Isilon A200 per attached bid	1	23,043.94	23,043.94		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	8	Isilon A200 per attached bid	1	23,043.94	23,043.94		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	1	Isilon H500 per attached bid	1	48,219.49	48,219.49		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	2	Isilon H500 per attached bid	1	48,219.49	48,219.49		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	3	Isilon H500 per attached bid	1	48,219.48	48,219.48		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	4	Isilon H500 per attached bid	1	48,219.48	48,219.48		Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	ConvergeOne Inc	5	Isilon A200 per attached bid	1	23,043.95	23,043.95	285,053.72	Enterprise Infrastructure	Aylward, Robert	Vice President	04/28/2021
04/28/2021	Data Sciences International Inc	1	QUO-72502-J5G5 - Ponemah Software System	1	70,086.25	70,086.25	70,086.25	Zoology & Physiology	Sun, Qian-Quan	Professor	04/28/2021
05/04/2021	Bruker Biospin Corporation	1	NMR probe for analyzing organic phosphorus in soils	1	55,955.80	55,955.80	55,955.80	Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	05/04/2021
05/04/2021	ConvergeOne Inc	5	3rd Gen FI Per port License to connect B-series per attached quote	6	1,795.06	10,770.36		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	6	3rd Gen FI Per port License to connect B-series per attached quote	6	1,795.06	10,770.36		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	7	3YR SNTC 24X7X4OS for UCS 5108 Bundle Support per attached quote	4	540.54	2,162.16		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	2	UCS-SP-5108-AC5 - UCS SP Select 5108 AC2 Chassis per attached quote	1	11,780.10	11,780.10		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	3	UCS-SP-5108-AC5 - UCS SP Select 5108 AC2 Chassis per attached quote	1	11,780.10	11,780.10		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	4	UCS-SP-5108-AC5 - UCS SP Select 5108 AC2 Chassis per attached quote	1	11,780.10	11,780.10		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/04/2021	ConvergeOne Inc	1	UCS-SP-5108-AC5 - UCS SP Select 5108 AC2 Chassis per attached quote	1	11,780.10	11,780.10	70,823.28	Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	04/30/2021
05/07/2021	Bio-Rad Laboratories	1	Bio-Rad QO81312-CPO21 - S3eTM Cell Sorter	1	149,728.91	149,728.91	149,728.91	Zoology & Physiology	Sanchez, Laurie	Dir, Business Operations	05/07/2021
05/07/2021	Rain for Rent	1	PROVIDE TEMP WATER DISTRIBUTION SYSTEM (PER ATTACHED QUOTE) 6 MONTH DURATION	1	227,800.08	227,800.08		Facilities Construction Mgt	Davis, John	Assoc VP for Univ Operations	05/06/2021
05/07/2021	Rain for Rent	2	ENVIRO RECOVERY FEE	1	1,138.00	1,138.00	228,938.08	Facilities Construction Mgt	Davis, John	Assoc VP for Univ Operations	05/06/2021
05/11/2021	Progressive Recovery, Inc	1	Annual Maintenance/Certification	1	11,750.00	11,750.00		Veterinary Science	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	3	Filter Validation	1	4,400.00	4,400.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	4	10" Filter Cartridge	1	440.00	440.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	5	1" Ball Valve	1	296.00	296.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	10	ASME Tank Inspections	1	11,060.00	11,060.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	11	Second Technician	1	9,155.00	9,155.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021

05/11/2021	Progressive Recovery, Inc	2	HMI/PLC Upgrade	1	13,910.00	13,910.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	6	Air Actuator w/ Smart Beacon	1	305.00	305.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	7	Brkt & Coup Kit Fits 1" APOLLO	1	106.00	106.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	8	Solenoid Valve	1	192.00	192.00		Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	Progressive Recovery, Inc	9	Air Actuator w/ Smart Beacon, MT31-SR4	1	274.00	274.00	51,888.00	Facilities Management	Jenks, Maria	Dir, Business Operations	05/11/2021
05/11/2021	WorldStrides	1	WorldStrides provides the service of creating custom study abroad trips that fit the University of Wyoming's needs. This is Wyoming's Veterans transition FYS to the Netherlands. Students TBD	1	60,760.00	60,760.00	60,760.00	Education Abroad	Stark, Stephanie	Dir, Business Operations	05/11/2021
05/12/2021	Mountain West Conference	1	Officiating Invoice for MWC Women's Basketball	1	65,900.00	65,900.00	65,900.00	Game Management	Hulet, Rachael	Assoc AD/Budgeting & Fin Mgmt	05/10/2021
05/12/2021	Mountain West Conference	1	Officiating Fees for the MWC- Men's Basketball	1	114,200.00	114,200.00	114,200.00	Game Management	Sparks, Billy	Sr Assoc Ath Dir/Business Ops	05/12/2021
05/13/2021	Mountain West Conference	1	MWC DUES	1	193,000.00	193,000.00	193,000.00	Intercollegiate Athletics Directors Office	Sparks, Billy	Sr Assoc Ath Dir/Business Ops	05/13/2021
05/19/2021	Office of the Attorney General	1	Master Agreement for various database services through Analysts International for WYSAC projects	418.96	140.00	58,654.40	75,000.00	Wyoming Survey & Analysis Center	Wittstock, Jennifer	Business Manager, Executive	05/18/2021
05/21/2021	Piri Technologies LLC	1	PTSP 2020-131 (Hess Bakken Gas/Oil rel. perm); Milestone 1, Sec. D.1: Prepare fluid samples; Milestone 2, Sec. D.2: Gas/live oil contact angle and dynamic interfacial tension (IFT) measurements (two experiments on two rock substrates); Mile	1	110,000.00	110,000.00	110,000.00	Center of Innovation for Flow through Porous Media	Ivanoff, Mary	Chief of Staff	05/21/2021
05/27/2021	PMB Group inc. DBA Conquer Scientific	1	Waters Acquity TOD LCMSMS System	0.64	62,773.00	40,174.72		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	05/27/2021
05/27/2021	PMB Group inc. DBA Conquer Scientific	1	Waters Acquity TOD LCMSMS System	0.36	62,773.00	22,598.28	62,773.00	VP for Research & Economic Development Office	Jenks, Maria	Dir, Business Operations	05/27/2021
05/28/2021	Covaris, Inc.	2	Covaris - 00022121 - ME220 Discounted One Year Service Plan	1	5,560.00	5,560.00		Zoology & Physiology	Sun, Qian-Quan	Professor	05/28/2021
05/28/2021	Covaris, Inc.	1	Covaris - 00022121 - ME220 Focused-ultrasonicator	1	56,882.00	56,882.00	62,442.00	Zoology & Physiology	Sun, Qian-Quan	Professor	05/28/2021
05/28/2021	Crank Legal Group	1	Legal Fees for Crank Legal Group regarding UW well matter	1	33,981.95	33,981.95		Office of the President	Ivanoff, Mary	Chief of Staff	05/28/2021
05/28/2021	Crank Legal Group	2	Legal Fees for Crank Legal Group regarding UW well matter	1	16,083.95	16,083.95	50,065.90	Office of the President	Ivanoff, Mary	Chief of Staff	05/28/2021
06/02/2021	Parvo Medics, Inc	2	Parvo Medics - TrueOne 2400 Metabolic Measuring System, Treadmill, computer and software	1	33,065.00	33,065.00		Kinesiology & Health	Jensen, Jilljean	Assistant Director	06/01/2021
06/02/2021	Parvo Medics, Inc	1	Parvo Medics - TrueOne 2400 Metabolic Measuring System, Treadmill, computer and software	1	33,065.00	33,065.00	66,130.00	Kinesiology & Health	Jensen, Jilljean	Assistant Director	06/01/2021
06/03/2021	LECO Corporation	1	Leco Corporation purchase of CN928 Macro Carbon/Nitrogen Determinator, Boom Mounted Touch Screen, Loader and PC as per quote #SJ823007	0.5	77,250.00	38,625.00		Ecosystem Science & Management	Jenks, Maria	Dir, Business Operations	06/03/2021
06/03/2021	LECO Corporation	1	Leco Corporation purchase of CN928 Macro Carbon/Nitrogen Determinator, Boom Mounted Touch Screen, Loader and PC as per quote #SJ823007	0.5	77,250.00	38,625.00	77,250.00	Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	06/03/2021
06/03/2021	Semiconductor Technology Associates, Inc.	1	4096 x 4096 pixel detector with 15 micron pixels for NASA/EHIRE lab	1	65,000.00	65,000.00	65,000.00	Physics & Astronomy	McVay, Thao	Grants Manager	06/03/2021
06/07/2021	Merit Energy Company	1	Oil well data and prior to and after EOR activities	1	100,000.00	100,000.00	100,000.00	Enhanced Oil Recovery Institute	Krutka, Holly	Executive Director	06/07/2021
06/09/2021	Heartland Kubota	1	2019 Kubota M7-151-PRM Tractor SN:10332 to be purchased for the payoff amount due as May 2021 per Kubota Leasing @ \$95,700 = \$26,382 to WYO-593-18 (1004690AE) + \$26,382 to WYO-624-21 (1004690AE-CS) + \$42,936 to DES 12204. See NIFA Approval.	0.28	95,700.00	26,796.00		Agriculture Experiment Station	Jenks, Maria	Dir, Business Operations	06/09/2021



**Capital Construction  
 Progress Report as of June 24, 2021**

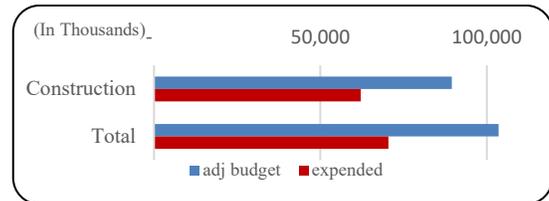
The following is an accounting of the progress and activity of construction and design since the last Trustees meeting. Also reported are approved change orders.

**PROJECTS IN CONSTRUCTION**

**1. Science Initiative**

Contractor: GE Johnson Construction Wyoming  
 Jackson, WY

Original Project Budget \$ 103,000,000 (a)  
 Adjusted Project Budget \$ 103,755,000 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
State Appropriation (2015 SL Ch 142 Sec 345)	3,000,000.00	3,000,000.00
UW General Reserve Account	10,000,000.00	10,000,000.00
UW Construction Reserve Account	5,000,000.00	5,000,000.00
State Appropriation (2018 Session, HB0194, Sec 5)	85,000,000.00	85,000,000.00
UW INBRE program		325,000.00
Major Maintenance		430,000.00
<b>Total Project</b>	<b>103,000,000.00</b>	<b>103,755,000.00</b>

Guaranteed Maximum Price \$74,359,220  
 Contract Substantial Completion Date February 3, 2022

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	82,029	-	7,472	89,501	(62,068)	(27,433)	-
<b>Contingency</b>	3,919	430	(3,454)	895	-	-	895
<b>Reserve</b>	2,002	-	-	2,002	-	-	2,002
<b>Design</b>	6,962	42	171	7,175	(6,831)	(344)	-
<b>FF&amp;E</b>	3,100	-	(1,013)	2,087	-	-	2,087
<b>Tech</b>	2,287	-	(2,287)	-	-	-	-
<b>Admin</b>	2,701	283	(889)	2,095	(1,580)	(309)	206
<b>Total</b>	<b>103,000</b>	<b>755</b>	-	<b>103,755</b>	<b>(70,479)</b>	<b>(28,086)</b>	<b>5,190</b>

**Statement of Contract Amount**

<b>Original contract</b>	Pre-construction	<b>\$142,000</b>
10/16/2019, Amendment #1	GMP established, includes full project scope excluding alternates, reserve held for north greenhouses. (Includes pre-construction)	74,359,220
Amendment #2	Construct research greenhouse	5,999,462
Amendment #3	Multiple scope changes: utility consumption, cw/hw line upsize, vivarium underground, INBRE underground, general duty valves, civil additions & revisions, add L2 bulkheads, ABB drive, INBRE complete, growth chambers	6,439,023
Amendment #4	AV/IT package	2,269,217
Change order #1	Installation of two (2) additional 4” conduits	2,230
Change order #2	Installation of emergency exit signs in greenhouse area	1,896
Change order #3	Increased size for transformer breakers for levels 2 & 4	1,788
Change order #4	Adding one (1) UPS machine within greenhouse manager’s office	2,087
Change order #5	Relocation of level 2 lab electrical panel	814
Change order #6	Allowance for temporary utility consumption – natural gas & electric (Feb 2021-Dec 2021)	314,083
Change order #7	Additional data drops & door hardware revisions, room 1230 – added plumbing & electrical, added CO sensors for greenhouse, room 1015 – add RO line	110,635
Change order #8	Phase 1 and 2 Lewis St. Corridor Improvements	3,586,303
<b>Adj contract</b>		<b>\$93,086,758</b>

<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>• Guaranteed Maximum Price contract amendment was approved 10/16/2019.</li> <li>• Construction activities commenced 10/17/2019.</li> <li>• Interior framing is in progress.</li> <li>• Drywall hang, tape, finish is in progress all levels.</li> <li>• Paint, first coat is in progress levels 1-3.</li> <li>• Exterior masonry field stone and slabs are in progress.</li> <li>• Glazing and curtain walls are in progress.</li> <li>• Building is dried in.</li> <li>• Elevators installed.</li> <li>• Interior glazing and lab casework is in progress.</li> <li>• Electrical trim is in progress.</li> </ul>

**Issues Encountered with Proposed Resolution for Each:**

- Energy recovery units (air handlers) delivery delay due to pandemic.

**Work Planned for Upcoming Month:**

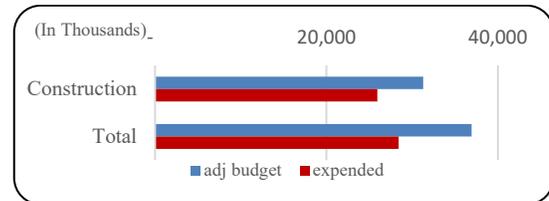
- Drywall finish.
- Paint.
- Greenhouse glazing.
- Casework.
- Exterior masonry.
- Site work and landscaping.

**2. West Campus Satellite Energy Plant**

Contractor: GE Johnson Construction Wyoming  
 Jackson, WY

Original Project Budget \$ 36,931,109 (a)

Adjusted Project Budget \$ 36,931,109 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
Major Maintenance	18,000,000.00	22,000,000.00
EERB Project Reserve	12,314,336.00	12,612,600.00
SI Project Reserve	2,000,000.00	1,701,736.00
UW – Capital Reserves (BOT)	4,616,773.00	616,773.00
<b>Total Project</b>	<b>36,931,109.00</b>	<b>36,931,109.00</b>

Guaranteed Maximum Price \$ 29,058,549.00  
 Contract Substantial Completion Date October 19, 2021

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	29,559	(200)	1,930	31,289	(25,948)	(5,541)	(200)
<b>Contingency</b>	3,688	(500)	(1,931)	1,257	-	-	1,257
<b>Reserve</b>		1,447	-	1,447			1,447
<b>Design</b>	2,623	(565)	-	2,058	(1,841)	(260)	(43)
<b>FF&amp;E</b>	110	-	-	110	-	(7)	103
<b>Tech</b>	25	-	-	25	(10)	-	15
<b>Admin</b>	926	(182)	1	745	(606)	(140)	(1)
<b>Total</b>	<b>36,931</b>	<b>-</b>	<b>-</b>	<b>36,931</b>	<b>(28,405)</b>	<b>(5,948)</b>	<b>2,578</b>

**Statement of Contract Amount**

<b>Original contract</b>	Pre-construction	<b>\$61,250</b>
Amendment #1	Initial Guaranteed Maximum Price for Foundation and Utilities. (Includes pre-construction)	15,486,191
Amendment #2	Final Guaranteed Maximum Price; full project scope.	13,572,358
Amendment #3	Utility extension and future boiler rough-in	82,297
Amendment #4	Heat exchangers, full heating conversion to surrounding buildings	2,348,254
<b>Adj contract</b>		<b>\$31,489,100</b>

**Work Completed/In Progress:**

- Bid Package #1 was issued for foundation and utilities. The public bid opening was held 6/18/2019.
- Initial Guaranteed Maximum Price was prepared and approved at the August 2019 Board of Trustees Meeting.
- Construction activities commenced 9/16/2019.
- Bid Package #2 was issued, 100% construction documents. The public bid opening was held 10/4/2019.
- Final GMP was approved on 11/14/2019.
- Foundation high walls and tank foundation are complete.
- Underground plumbing and electrical are complete.
- Basement slab on grade is complete.
- Steel erection and metal decking are complete.
- Masonry walls are in progress.
- Mechanical, electrical, and plumbing (MEP) rough is in progress.
- Distribution piping is in progress.
- TES tank is complete, filled and tested.
- Interior framing and finish activities are in progress.
- Glazing is complete.
- Initial boiler start-up is complete.
- Vertical boiler flue installation is complete.
- Stucco is in progress.
- Permanent power is complete.
- Natural gas branch line and meter are set.
- Generator start-up and load test is complete.
- Boiler utility is operating to heat EERB.
- All MEP trim and testing is complete.
- Demolition of the Ag/Engineering ramp is complete
- Substantial completion for building and distribution utilities is complete.
- Alternate building tie-ins are in progress.

**Issues Encountered with Proposed Resolution for Each:**

- None at this time.

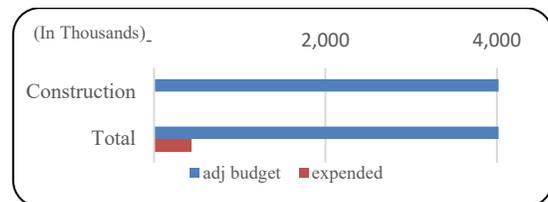
**Work Planned for Upcoming Month:**

- Masonry completion.
- Mechanical commissioning.
- Landscape.
- Hardscapes.
- Building tie-ins for Ag and Engineering.

**3. 11<sup>th</sup> & 12<sup>th</sup>/Lewis Street Reconstruction**

Contractor: GE Johnson Construction Wyoming  
 Jackson, WY

Original Project Budget \$ 4,000,000 (a)  
 Adjusted Project Budget \$ 6,140,465 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
EERB Project Reserve	4,000,000.00	4,300,000.00
Science Initiative Project Reserve		300,000.00
West Campus Satellite Energy Plant Project Reserve		1,446,440.17
City of Laramie		31,624.83
Campus Master Plan Project – remaining funds		62,400.00
<b>Total Project</b>	<b>4,000,000.00</b>	<b>6,140,465.00</b>

Guaranteed Maximum Price \$ 3,586,303 (direct construction)  
 Contract Substantial Completion Date Phase 1 and 2: May 2022

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	3,000	2,078	-	5,078	-	(5,012)	66
<b>Contingency</b>	450	-	(223)	227	-	-	227
<b>Design</b>	365	63	223	651	(398)	(253)	-
<b>FF&amp;E</b>	-	-	-	-	-	-	-
<b>Tech</b>	-	-	-	-	-	-	-
<b>Admin</b>	185	-	-	185	(32)	(13)	140
<b>Total</b>	<b>4,000</b>	<b>2,141</b>	<b>-</b>	<b>6,141</b>	<b>(430)</b>	<b>(5,278)</b>	<b>433</b>

**Statement of Contract Amount**

<b>Original contract</b>	Phase 1 & 2 Lewis Street Corridor Improvements	<b>\$3,586,303</b>
<b>Adj contract</b>		<b>\$3,586,303</b>

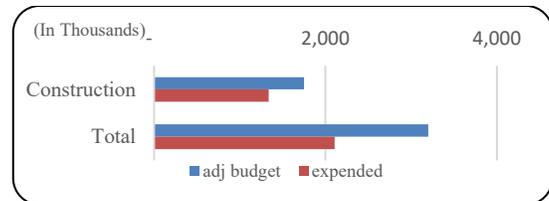
<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>• Design development is 95% complete.</li> <li>• Survey is complete.</li> <li>• Construction drawings are 95% complete and issued for pricing.</li> <li>• Vacation of Lewis Street section and 11<sup>th</sup> and 12<sup>th</sup> Street has been submitted to the City.</li> <li>• Utility design is complete and issued for pricing.</li> <li>• MOU Amendment is executed.</li> <li>• Site capture has started.</li> <li>• Demolition is complete on Lewis and 10<sup>th</sup>. Grading is in progress.</li> </ul>

<b>Issues Encountered with Proposed Resolution for Each:</b>
<ul style="list-style-type: none"> <li>• None at this time.</li> </ul>

<b>Work Planned for Upcoming Month:</b>
<ul style="list-style-type: none"> <li>• Storm drain installation.</li> </ul>

**4. College of Business: Student Success Center**

Contractor: GE Johnson Construction Wyoming  
 Jackson, WY



Original Project Budget \$ 400,000 (a)  
 Adjusted Project Budget \$ 3,200,000 (d)

<b><u>Funding Sources:</u></b>	<b><u>Original Anticipated:</u></b>	<b><u>Actual:</u></b>
Foundation donations	400,000.00	400,000.00
Foundation donations (loan)		2,800,000.00
<b>Total Project</b>	<b>400,000.00</b>	<b>3,200,000.00</b>

Guaranteed Maximum Price N/A  
 Contract Substantial Completion Date March 1, 2021

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>		1,750	-	1,750	(1,338)	(252)	160
<b>Contingency</b>		262	(70)	192	-	-	192
<b>Design</b>	287	-	70	357	(313)	(44)	-
<b>FF&amp;E</b>		665	-	665	(419)	(106)	140
<b>Tech</b>		129	-	129	(9)	(91)	29
<b>Admin</b>	113	(6)	-	107	(27)	(26)	54
<b>Total</b>	<b>400</b>	<b>2,800</b>	<b>-</b>	<b>3,200</b>	<b>(2,106)</b>	<b>(519)</b>	<b>575</b>

**Statement of Contract Amount**

<b>Original contract</b>	**\$267,387 MEP scope in contract is funded by major maintenance	<b>\$1,375,000</b>
Change order #1	Restroom 193: add floor drain/framing on north wall for water closet carrier inside wall cavity; specification change for tile carpeting	17,083
Change order #2	Installation of perimeter window sills, column patching, plastic laminate deletion, automatic entrance finish	35,821
Change order #3	Installation of vestibule renovations, demolition, framing & wood walls	47,393
Change order #4	Installation of electrical changes for breezeway renovations	49,757
Change order #5	Installation of access panels, mechanical revisions, vestibule paint & temporary protections, restroom ceiling, floor x-ray, fireproofing touchup	46,418
Change order #6	Installation of case room entry ceiling, controls work, AV/IT routing and power towel dispenser	44,590
Change order #7	Installation of stone and AV contractor change	43,130
Change order #8	Installation of new roller shades, added light fixtures and flooring preparation	38,297
Change order #9	Additional costs: ASI 11 breezeway modifications, added soffit in Student Commons, Gridworx for donor stone, Steamboat in case room, remake of panel for booths, force account for move-in damage	43,263
Change order #10	Paint touch ups & wall sconce replacements, add power to roller shades, outlets for data; additional speakers & strobes; cut/fab diffuser for vestibule & install duct/diffusers on north wall; rework wall C120; change accent wall south office	31,912

Change order #11	Removal & replacement of lighting fixtures & dimming switches; installation of new & relocation of receptacles & telecom outlets	44,179
Change order #12	Additional costs: Saturday premium time; TV change; south stair; case; room north wall; mechanical access panels; drywall; core for doors	40,378
<b>Adj contract</b>		<b>\$1,857,221</b>

**Work Completed/In Progress:**

- Original project scope substantially complete. Certificate of Owner’s occupancy obtained, individuals moved into the suite the week of April 12<sup>th</sup>.
- Punch list items continue to be addressed, including General and FF&E contractor work.
- A/V work throughout approximately 90% complete. Expected to be complete by August 2021.
- Architect’s Supplemental Instructions (ASI) related work ongoing, including breezeway work. Breezeway work expected to continue into late summer 2021.
- Additional ASI work includes creation of masonry veneered wall for wood panel donor recognition within the GJSSC, renovation of corridor to restrooms, mechanical/electrical rooms in the suite, and various lighting replacements throughout.

**Issues Encountered with Proposed Resolution for Each:**

- Vending/Breakroom area not ADA compliant as-built. Solution identified with some minor partition relocating. ASI issued, work to correct underway.

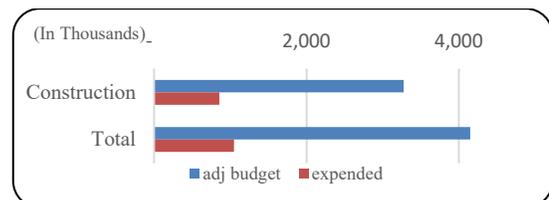
**Work Planned for Upcoming Month:**

- Bi-weekly OAC meetings will continue to be held.
- Punch list items will continue to be addressed.
- ASI related work, including breezeway renovation, will continue.

**5. Corbett Renovation**

Contractor: Shepard Construction

Original Project Budget \$4,150,000 (a)  
 Adjusted Project Budget \$4,150,000 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
State Appropriation (2018 Session, HB0001, Section 308 e)	1,000,000.00	1,000,000.00
UW – Kinesiology & Health	350,000.00	350,000.00
Major Maintenance	2,800,000.00	2,800,000.00
<b>Total Project</b>	<b>4,150,000.00</b>	<b>4,150,000.00</b>

Guaranteed Maximum Price N/A  
 Contract Substantial Completion Date September 1, 2021

(In Thousands)	<b>Budget</b> (a)	<b>Additional Funding/Adj</b> (b)	<b>Use of Contingency</b> (c)	<b>Adj Budget</b> (a+b+c)=(d)	<b>Expenditures</b> (e)	<b>Obligations</b> (f)	<b>Remaining Balance</b> (d+e+f)=(g)
<b>Construction</b>	3,277	-	-	3,277	(855)	(2,422)	-
<b>Contingency</b>	416	-	(45)	371	-	-	371
<b>Design</b>	228	-	-	228	(143)	(21)	64
<b>FF&amp;E</b>	21	-	-	21	(18)	-	3
<b>Tech</b>	16	-	-	16	-	-	16
<b>Admin</b>	192	-	45	237	(32)	(97)	108
<b>Total</b>	<b>4,150</b>	-	-	<b>4,150</b>	<b>(1,048)</b>	<b>(2,540)</b>	<b>562</b>

**Statement of Contract Amount**

<b>Original contract</b>		<b>\$3,041,142</b>
Change order #1	Complete second floor office expansion	93,000
<b>Adj contract</b>		<b>\$3,134,142</b>

**Work Completed/In Progress:**

- Hazardous material abatement 97% complete.
- Underground plumbing complete.
- Ramp section demo and excavation complete.
- Concrete in shower areas complete.
- Non-structural steel stud framing in lobby and Kinesiology & Health area complete.
- Overhead HVAC and electrical rough-ins complete.
- Scaffolding erection in pool complete.
- Footing excavation for 2<sup>nd</sup> Floor offices underway.

**Issues Encountered with Proposed Resolution for Each:**

- None at this time.

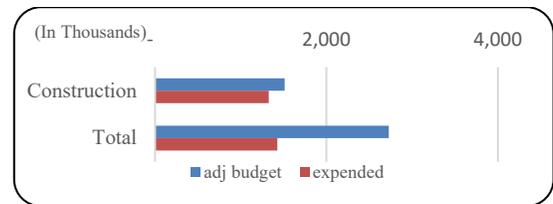
<p><b>Work Planned for Upcoming Month:</b></p> <ul style="list-style-type: none"> <li>• Complete hazardous material abatement.</li> <li>• Continue non-structural steel stud framing in locker room areas.</li> <li>• Continue overhead HVAC, plumbing and electrical rough-in for walls.</li> <li>• Start fire alarm rough-in.</li> <li>• Pool acoustical baffle panel anchor installation underway.</li> <li>• Begin concrete form work for ramp and 2<sup>nd</sup> floor footings.</li> </ul>
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**UW Housing Phase I**

**6. Wyoming Hall Deconstruction**

Contractor: Haselden Wyoming Constructors  
 Laramie, WY

Original Project Budget \$ 2,726,536 (a)  
 Adjusted Project Budget \$ 2,726,536 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
UW – Housing Reserve Account	2,726,536.00	2,726,536.00
<b>Total Project</b>	<b>2,726,536.00</b>	<b>2,726,536.00</b>

Guaranteed Maximum Price \$13,946,242 (includes Utility Relocation Scope)  
 Contract Substantial Completion Date June 28, 2021

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	720	788	3	1,511	(1,327)	(184)	-
Contingency	108	-	(3)	105	-	-	105
Design	43	-	-	43	(21)	(1)	21
FF&E	-	-	-	-	-	-	-
Tech	-	-	-	-	-	-	-
Admin	1,856	(788)	-	1,068	(80)	-	988
<b>Total</b>	<b>2,727</b>	<b>-</b>	<b>-</b>	<b>2,727</b>	<b>(1,428)</b>	<b>(185)</b>	<b>1,114</b>

**Statement of Contract Amount**

<b>Original contract</b>	GMP established	\$1,508,420
	Adjusted amount on schedule of values from Wyoming Hall Utility Relocation project	2,398
<b>Adj contract</b>		<b>\$1,510,818</b>

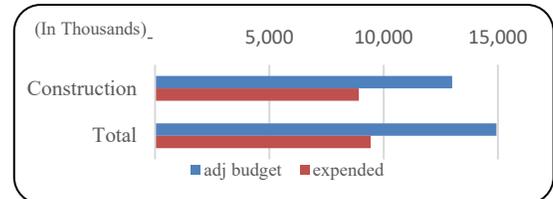
<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>Asbestos abatement is complete.</li> <li>Utilities are rerouted.</li> <li>Building demolition is complete and removal is on schedule.</li> </ul>

<b>Issues Encountered with Proposed Resolution for Each:</b>
<ul style="list-style-type: none"> <li>None at this time.</li> </ul>

<b>Work Planned for Upcoming Month:</b>
<ul style="list-style-type: none"> <li>Safety of site and complete temporary Willet crossing.</li> </ul>

### 7. Wyoming Hall Utility Relocation

Contractor: Haselden Wyoming Constructors  
 Laramie, WY



Original Project Budget \$14,929,300 (a)  
 Adjusted Project Budget \$14,929,300 (d)

<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
UW – Construction Reserve Account	10,000,000.00	10,000,000.00
Major Maintenance	4,929,300.00	4,929,300.00
<b>Total Project</b>	<b>14,929,300.00</b>	<b>14,929,300.00</b>

Guaranteed Maximum Price  
 Contract Substantial Completion Date

\$13,946,242 (includes Demolition scope)  
 June 28, 2021

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	12,929	-	72	13,001	(8,916)	(4,085)	-
<b>Contingency</b>	1,200	-	(176)	1,024	-	-	1,024
<b>Design</b>	331	-	104	435	(377)	(58)	-
<b>FF&amp;E</b>	-	-	-	-	-	-	-
<b>Tech</b>	240	-	-	240	-	-	240
<b>Admin</b>	229	-	-	229	(140)	(31)	58
<b>Total</b>	<b>14,929</b>	-	-	<b>14,929</b>	<b>(9,433)</b>	<b>(4,174)</b>	<b>1,322</b>

**Statement of Contract Amount**

<b>Original contract</b>	Pre-Construction	\$10,000
Amendment #1	GMP established	12,427,822
Change order #1	Vault lid structural change and tunnel light fixture revision.	6,037
Change order #2	Removal of existing duct bank and installation of new, provide (4) runs of 4' conduit with new MV cable.	49,755
Change order #3	Installation of 15 <sup>th</sup> Street water line, Bradley Street water line changes.	493,830
	Adjusted amount on schedule of values to Wyoming Hall Deconstruction project	(2,398)
Change order #4	Construction contingency, surveying, installation of 15 <sup>th</sup> Street north additional water & sewer line, overhead & profit/general conditions **Lewis Street project/funds	1,425,572
Change order #5	Associated costs with accelerating the 15 <sup>th</sup> Street water line work from Lewis Street to Ivinson Street, due to delayed start through DEQ permitting	16,297
<b>Adj contract</b>		<b>\$14,426,915</b>

<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>• Utilities install in the tunnels is progressing and on schedule.</li> <li>• Bradley Street hot and chilled water is complete.</li> <li>• City waterline addition Ivinson to Grand is submitted to the city for July 6<sup>th</sup> council meeting.</li> <li>• McWhinnie Hall basement work is underway.</li> <li>• West tunnel install is complete.</li> <li>• Playground pricing is under review and scheduled to start July 1.</li> <li>• Medium voltage shutdown and reroute is complete.</li> <li>• Fiber and copper reroute is complete.</li> <li>• 15<sup>th</sup> Street Lewis north utilities are underway.</li> <li>• 15<sup>th</sup> Street water line from Lewis to Ivinson is on schedule.</li> <li>• Irrigation main install is underway and on schedule.</li> </ul>

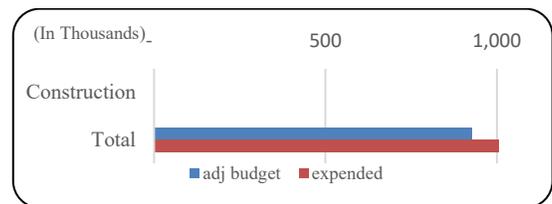
<b>Issues Encountered with Proposed Resolution for Each:</b>
<ul style="list-style-type: none"> <li>• Coordinating new 3" irrigation line install that was not previously designed along 15<sup>th</sup> from Willett to Sorority Row. Chilled water is not flushed to date due to missing fitting.</li> </ul>

<b>Work Planned for Upcoming Month:</b>
<ul style="list-style-type: none"> <li>• Schedule and phasing plans for 15<sup>th</sup> Street water lines.</li> <li>• 15<sup>th</sup> street water line from Willet to Sorority Row.</li> <li>• Lewis Street low voltage duct bank install.</li> <li>• Utility install between Wyoming Hall and McWhinnie Hall.</li> <li>• 15<sup>th</sup> street water line Lewis north and Bradley 15<sup>th</sup> to 14<sup>th</sup> Streets.</li> <li>• Working with City on pricing approval and agreement between UW and City for water line funded by the City from Iverson Street to Grand Avenue.</li> <li>• Bradley Street water line install.</li> </ul>

**8. Iverson Lot Parking Garage**

Contractor: Haselden Wyoming Constructors  
 Laramie, WY

Original Project Budget \$926,400 (a)  
 Adjusted Project Budget \$926,400 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
UW – Housing Reserve Account	926,400.00	926,400.00
	-	-
<b>Total Project</b>	<b>926,400.00</b>	<b>926,400.00</b>

Guaranteed Maximum Price \$  
 Contract Substantial Completion Date

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	-	-	-	-	-	(16)	(16)
<b>Contingency</b>	-	-	-	-	-	-	-
<b>Design</b>	726	-	-	726	(857)	(640)	(771)
<b>FF&amp;E</b>	-	-	-	-	-	-	-
<b>Tech</b>	-	-	-	-	-	-	-
<b>Admin</b>	200	-	-	200	(178)	(46)	(24)
<b>Total</b>	<b>926</b>	<b>-</b>	<b>-</b>	<b>926</b>	<b>(1,035)</b>	<b>(702)</b>	<b>(811)</b>

**Statement of Contract Amount**

<b>Original contract</b>	Pre-Construction	\$15,712
<b>Adj contract</b>		\$15,712

<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>• Construction document phase approximately 90% complete.</li> <li>• Conditional Use Permit application submitted to the City on 3/3/2021.</li> <li>• Site Plan submitted to the City 3/8/2021.</li> </ul>

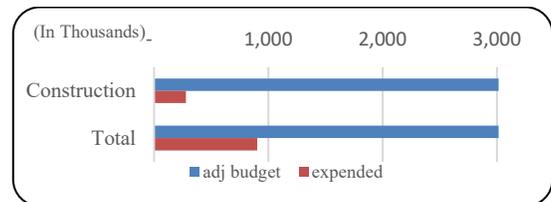
<b>Issues Encountered with Proposed Resolution for Each:</b>
<ul style="list-style-type: none"> <li>• Reviewing options for construction delivery.</li> </ul>

<b>Work Planned for Upcoming Month:</b>
<ul style="list-style-type: none"> <li>• Continue development of the construction documents and bidding documents.</li> <li>• Coordinate planning submittals with the City.</li> </ul>

### 9. Bus Garage/Fleet Relocation

Contractor: GH Phipps Wyoming  
 Laramie, WY

Original Project Budget \$2,779,260 (a)  
 Adjusted Project Budget \$7,214,217 (d)



<b>Funding Sources:</b>	<b>Original Anticipated:</b>	<b>Actual:</b>
UW – Construction Reserve Account	2,779,260.00	2,779,260.00
FTA 5339(b) Grant		4,237,262.00
UW - VP Administration Reserve Account		197,695.00
<b>Total Project</b>	<b>2,779,260.00</b>	<b>7,214,217.00</b>

Guaranteed Maximum Price \$5,989,703.00  
 Contract Substantial Completion Date December 6, 2021

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	2,100	3,890	-	5,990	(278)	(5,712)	-
<b>Contingency</b>	315	1	-	316	-	-	316
<b>Design</b>	125	127	-	252	(206)	(49)	(3)
<b>FF&amp;E</b>	86	166	-	252	(122)	(68)	62
<b>Tech</b>	71	-	-	71	(7)	-	64
<b>Admin</b>	82	251	-	333	(289)	(26)	18
<b>Total</b>	<b>2,779</b>	<b>4,435</b>	-	<b>7,214</b>	<b>(902)</b>	<b>(5,855)</b>	<b>457</b>

**Statement of Contract Amount**

<b>Original contract</b>	Initial limited scope Guaranteed Maximum Price	<b>\$1,322,997</b>
	Final Guaranteed Maximum Price	5,989,703
<b>Adj contract</b>		<b>\$5,989,703</b>

**Work Completed/In Progress:**

- City sewer and water connections complete.
- Concrete foundation, footings, and trench drain work nearly complete.
- Foundation coating and insulation complete.
- Soil compaction testing, re-bar and concrete testing underway.
- Site work, structural fill compaction ongoing.
- Finalized alternate pricing for south canopy.

**Issues Encountered with Proposed Resolution for Each:**

- Existing asphalt parking lot is thin in some areas to mill 2” across the site per specifications. Core drilling additional samples to determine asphalt depth.

**Work Planned for Upcoming Month:**

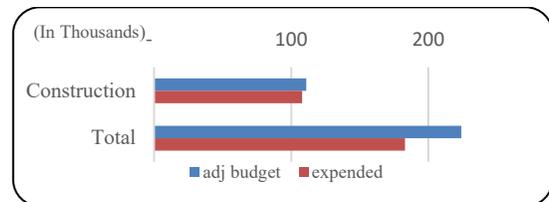
- Lot Consolidation Final Plat approval from the City of Laramie.
- Gas and electric service rough-in.
- Continue site compaction, fine grade, and utility work.
- Mill existing asphalt lot.
- Electric and plumbing under slab on grade rough-in.
- Prep and pour building concrete floor, curb and gutter.
- Pave first lift of asphalt.
- Notice to proceed for south canopy alternates scope of work.

**10. Bus Garage/Fleet Relocation – 1602 Spring Creek Renovation**

Contractor:

Original Project Budget \$ (a)

Adjusted Project Budget \$ (d)



<b><u>Funding Sources:</u></b>	<b><u>Original Anticipated:</u></b>	<b><u>Actual:</u></b>
UW - VP Administration Reserve Account	223,772.00	223,772.00
<b>Total Project</b>	<b>223,772.00</b>	<b>223,772.00</b>

Guaranteed Maximum Price  
 Contract Substantial Completion Date

N/A

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
<b>Construction</b>	94	-	17	111	(108)	(3)	-
<b>Contingency</b>	22	-	(17)	5	-	-	5
<b>Design</b>	-	-	-	-	-	-	-
<b>FF&amp;E</b>	15	-	-	15	-	-	15
<b>Tech</b>	10	-	-	10	(10)	-	-
<b>Admin</b>	83	-	-	83	(65)	(16)	2
<b>Total</b>	<b>224</b>	-	-	<b>224</b>	<b>(183)</b>	<b>(19)</b>	<b>22</b>

**Statement of Contract Amount**

<b>Original contract</b>		\$-
<b>Adj contract</b>		\$-

<b>Work Completed/In Progress:</b>
<ul style="list-style-type: none"> <li>1602 Spring Creek is complete.</li> </ul>

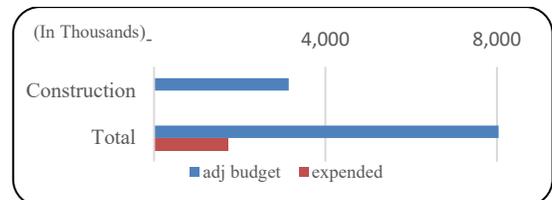
<b>Issues Encountered with Proposed Resolution for Each:</b>
<ul style="list-style-type: none"> <li>Fleet Services roof is damaged and leaking. Reviewing options for funding repairs.</li> </ul>

<b>Work Planned for Upcoming Month:</b>
<ul style="list-style-type: none"> <li>None at this time.</li> </ul>

**11. UW Student Housing**

Contractor:

Original Project Budget \$ (a)  
 Adjusted Project Budget \$ (d)



<b><u>Funding Sources:</u></b>	<b><u>Original Anticipated:</u></b>	<b><u>Actual:</u></b>
UW – Housing Reserve Account	590,000.00	8,681,675.00
UW – Construction Reserve Account		2,143,000.00
<b>Total Project</b>	<b>590,000.00</b>	<b>10,824,675.00</b>

