Want world-class facilities? A picturesque campus? A nationally recognized research institution? Small student-to-faculty ratio? This is the place for you.
Offering the feel of a small town with all the amenities of a larger institution, UW features unlimited academic and lifestyle opportunities. Come see how the University of Wyoming will give you the tools for success.

"As I look back on my life, the two things that have caused me to be successful are the work ethic and values that go with the state of Wyoming, (and) the education I got there."

- Greg Hill, President, Hess Corporation
  Mechanical Engineering, B.S. ('83)
What set UW apart was the faculty of the College of Engineering. We don’t have that many students, so the professors actually develop relationships with the students.

- Jakob Sumearl, Civil Engineering (‘15)
90 percent of our graduates have jobs or go on to graduate programs within six months of graduation.

Small-class sizes (average: 28 per) ensure you’ll have the opportunity to participate in hands-on research.

Our graduates have gone on to careers with companies like Ford Motor Company, Encana, IBM, AT&T, ConocoPhillips and NASA.

Scholarships are available – more than 375 merit-based awards are allocated each year to current students and high school seniors.

Nearly 78 percent of our graduates report a starting salary greater than $60,000 annually, and 89 percent report a starting salary greater than $50,000 annually.

Choose from undergraduate engineering programs such as architectural, chemical, civil, computer, computer science, electrical, energy systems, mechanical and petroleum.

Working in collaboration with the UW School of Energy Resources, students can access some of the world’s finest research facilities.
CHEMICAL ENGINEERING

UW researchers are working to develop methods to improve performance of current processes in the energy market.

Learn more >> uwyo.edu/chemical

4% projected job growth from 2012-2022 in chemical engineering

Professor John Oakey’s laboratory is researching biomedical applications to develop smaller instrumentation that is cost effective.

Chemical engineering is an exciting and demanding field that provides excellent career opportunities in the U.S. and around the world. At UW, we strive to prepare students to be leaders in industry, government or academia. Those alumni with the advanced education and research skills associated with obtaining graduate degrees have additional flexibility, breadth, and depth to become leaders as the problems of tomorrow arise. Our faculty are award-winning, world-class researchers and teachers with a variety of research foci. The department occupies a major share of the modern 130,000-square-foot engineering addition, including six undergraduate laboratories and 20 research laboratories as well as machine, wood and instrument shops.

The faculty is willing to work with undergraduates who show interest in research and help them on to master’s or doctorate programs if that is their ambition.

- Paige Fischer, Chemical Engineering, B.S. (’13)

Careers in Chemical Engineering - Careers in the energy, food, water, manufacturing, healthcare and pharmaceutical industries are typical. Biochemical engineering examines vaccines, stem cells, artificial organs and biofuels. Professionals work on creating and refining polymers in manufacturing and medicine.

How much will I make? - The average annual salary for chemical engineers was $94,350 in 2012.

Where can I work? - Companies like Pfizer, Johnson & Johnson and DuPont employ chemical engineers.

Chemical engineering turns raw materials, such as crude oil, biological materials, metals and waste materials into usable products, including gasoline, foods and medications. Chemical engineers apply the principles of chemistry, biology, physics and math to solve problems that involve the production or use of chemicals, fuel, drugs, food and many other products. They design processes and equipment for large-scale safe and sustainable manufacturing, plan and test methods of manufacturing products and treating byproducts and supervise production.

Careers in the energy, food, water, manufacturing, healthcare and pharmaceutical industries are typical. Biochemical engineering examines vaccines, stem cells, artificial organs and biofuels. Professionals work on creating and refining polymers in manufacturing and medicine.

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Where can I work? - Companies like Pfizer, Johnson & Johnson and DuPont employ chemical engineers.

Learn more >> uwyo.edu/chemical
You have a very high chance of getting a great job with a great company, and the demand is always going to be there for qualified workers.

- Sabrina Forbis, Petroleum Engineering, B.S. ’14
Wyoming Oil and Gas Conservation Commission

“Careers in Petroleum Engineering” - Petroleum engineers are involved in all facets of oil exploration and development, from identifying and characterizing the reservoir through drilling and completion to production. Petroleum engineers also find new ways to extract oil and gas from older wells.

How much will I make? - The average annual salary for petroleum engineers was $130,280 in 2012.

Where can I work? - Companies like Chevron, Encana, Halliburton, BP, Hess and ConocoPhillips employ petroleum engineers.

Petroleum engineering students have the opportunity to collaborate on many projects in energy research, including clean coal technology, coal gasification and advanced oil and gas recovery.

You have a very high chance of getting a great job with a great company, and the demand is always going to be there for qualified workers.

Petroleum engineers travel to where the reserves are. Petroleum engineering often provides the highest earning potential of the engineering disciplines. However, it is also subject to the fluctuations in the marketplace. New technology is continually emerging, creating an industry that is full of both challenges and opportunity.

Projected growth of jobs available for petroleum engineers by 2022

Petroleum engineering works closely with the School of Energy Resources to explore unconventional reservoirs that contain resources that do not flow at economic rates or produce economic volumes of oil and natural gas without stimulation or other recovery processes and technologies. UW petroleum engineering students have the opportunity to join professional societies to network and enhance understanding of relevant topics. Examples include the Society of Petroleum Engineers and the American Association of Drilling Engineers. These organizations are composed of undergraduates, graduates and faculty serving members, seeking to further their knowledge in exploration, development, production and mid-stream segment of the oil, gas and related industries.
Careers in Civil and Architectural Engineering - Graduates from our program find employment with public agencies, private firms and in industry in both small towns and large cities nationwide. These individuals design, construct, supervise, operate and maintain large construction projects and systems.

How much will I make? - The average annual salary for civil and architectural engineers was $79,340 in 2012.

Where can I work? - Companies like Johnson Controls, Trihydro, Tower Engineering and the Wyoming Department of Transportation employ civil and architectural engineers.

98% of graduates find employment with public agencies and private firms

The Department of Civil and Architectural Engineering emphasizes the following themes:

- Environmental stewardship – Sustainable practices for natural and man-made systems to protect human health and the environment.
- Infrastructure design, repair and rehabilitation – Extending the life and utility through developments in materials technology and systems operation.
- Rural transportation safety – Enhancing the safety of all forms of the transportation network in the rural West.
- Sustainable building practices – Model, create and operate buildings that are energy efficient, resilient and healthy.
- Water resources – Understanding the changing hydrologic processes that govern the water resource.

The CAE department at UW provides ABET-accredited degree programs in civil engineering and architectural engineering, as well as a minor in land surveying. Civil engineering majors are provided course options in environmental, geotechnical, structural, transportation and water resource engineering. Architectural engineering majors have course options in building structural systems and building mechanical systems. Incoming freshmen experience at least one design-based course each year in an innovative course sequence called VISTA (for Vertically Integrated Science and Technology Application), wherein students tackle modern engineering challenges from their very first semester. Many undergraduate students find on-campus opportunities in the research laboratories and with a unique cooperative learning experience on the Wyoming Department of Transportation’s Design Squad.

Learn more >> uwyo.edu/civil

Melinda Kolm received hands-on experience with wind turbines on the plains of Wyoming.
COMPUTER SCIENCE

The Rocky Mountain Celebration of Women in Computing conference encourages the career interests of women in computing.

>> uwyo.edu/cosc

Learn more

There are more software jobs than can be filled with current graduates, with this remaining true for the foreseeable future. These are high-paying jobs housed in rich working environments. Traditional careers in computer science include work in graphics, software engineering, networks, databases, multimedia and artificial intelligence.

The CEAS at UW provides graduates with a well-prepared approach to careers in computer science, a rapidly growing field. The Industrial Affiliates Program (IAP) has been developed to link industrial and business partners with students and faculty members. Partner companies pay an annual fee to form unique networking possibilities. Partners belonging to the IAP offer students opportunities for internships and full-time positions with their companies. For more information and a list of partners participating the program please visit: uwyo.edu/cosc/industrial_affiliates

70%

of all newly created STEM jobs in the next decade will be in computer science, projected by the Bureau of Labor Statistics

COMPUTER SCIENCE

Professor Amy Banic conducts research into 3D-user interfaces, focusing on human-centered computing.

I’d say the education I got at UW was the richest four to six years of my life in terms of learning.

- Neal Sample, Computer Science, M.S. (98) – President, enterprise growth, American Express Co.

Careers in Computer Science - Traditional careers in computer science include work in graphics, software engineering, networks, databases, multimedia and artificial intelligence.

How much will I make? – The average annual salary for computer science engineers was $102,190 in 2012.

Where can I work? – Companies like Lockheed Martin, Echo Star and American Express employ computer science engineers.

Learn more >> uwyo.edu/cosc
A growing number of medical devices are designed by computer engineers with a computer system and the ability to connect to the Internet.

It has often been said ECE students get to “play” with some of the best “toys,” but students are prepared for an exciting future career. The main disciplines contained within this area of study include:

Electrical Engineering—Provides depth of understanding necessary to meet the challenges of ever-changing technology and allows students to pursue comprehensive study in at least one specialization area of electrical engineering.

Computer Engineering—Similar to the electrical engineering program but emphasizes computer-related technology.

Projected new jobs in electrical engineering fields by 2022

The ECE department at UW offers electrical engineering, computer engineering and a bioengineering option of electrical engineering. There is frequent opportunity for undergraduates to participate in research projects. ECE faculty members maintain a flexible open-door policy making them extremely accessible to students. The department has well-equipped laboratories, offers free access to computer systems running software needed for your studies, maintains small class sizes and provides a friendly, supportive environment for students.
MECHANICAL AND ENERGY SYSTEMS ENGINEERING

Mechanical engineers design power-producing machines such as electric generators, internal combustion engines and wind turbines.

The Energy Systems Engineering program is designed to train engineers to address one of this country’s foremost challenges to achieve energy independence and meet the growing demand for energy, while addressing critical environmental concerns. ESE engineers are trained in alternative and environmentally friendly energy-conversion systems such as wind, solar, and geothermal, as well as more traditional technologies. The program prepares students to be technology leaders in energy conversion and environmental protection systems, managers in the energy industry, overseers of energy development and to be environmentally sensitive liaisons between the energy industry and the public.

5% projected job growth in mechanical engineering by 2022

The Energy Systems Engineering program is designed to train engineers to address one of this country’s foremost challenges to achieve energy independence and meet the growing demand for energy, while addressing critical environmental concerns. ESE engineers are trained in alternative and environmentally friendly energy-conversion systems such as wind, solar, and geothermal, as well as more traditional technologies. The program prepares students to be technology leaders in energy conversion and environmental protection systems, managers in the energy industry, overseers of energy development and to be environmentally sensitive liaisons between the energy industry and the public.

MECHANICAL ENGINEERING

Mechanical engineering is the broadest of all engineering disciplines. It deals with diverse engineering problems in solid mechanics, fluid dynamics and aerodynamics, heat transfer, energy conversion, vibration, design, manufacturing, controls, materials science and electromechanical systems, among others. Mechanical engineers are employed in almost every industry. If there are moving parts or if energy is converted from one form to another, a mechanical engineer was responsible for the design. Students receive a hands-on education with small ME class sizes averaging 28 students per lecture class and 10 students per laboratory section.

Projected job growth in mechanical engineering by 2022

The average annual salary for mechanical engineers was $80,580 in 2012.

Careers in Mechanical Engineering

UW graduates are employed at more than 700 companies and in all 50 states. Mechanical engineers find employment in industries such as automotive, aerospace, manufacturing, defense, electric utilities, chemical and oil/gas.

How much will I make? The average annual salary for mechanical engineers was $80,580 in 2012

Where can I work? Companies like Lockheed Martin, Boeing, GE, Cessna and FMC employ mechanical engineers.

Learn more >> uwyo.edu/mechanical
SCHOOL OF ENERGY RESOURCES

Enhanced oil recovery labs at the School of Energy Resources research issues critical to the nation’s energy future.

Collaboration is the key to the relationship between the CEAS and UW’s School of Energy Resources. The two separate entities have mutually aligned interests which allow the CEAS and SER to work closely on many projects, including providing nationally competitive undergraduate and graduate instruction in energy-related disciplines, advancing state-of-the-art, Wyoming energy-related science, technology and economics research and supporting scientific and engineering outreach through dissemination of information to Wyoming’s energy industries, companies, community colleges and governmental agencies.

The University of Wyoming’s Energy Innovation Center (EIC) facility includes 27,300 square feet of highly technical research space.

The High Bay Research Facility will be a shared UW resource among the School of Energy Resources, the College of Engineering and Applied Sciences and the Department of Geology and Geophysics. This laboratory facility will contain approximately 90,000 square feet of traditional and high-bay research laboratories, offices and meeting areas. The goal of this facility is to provide sufficient space, capacity and state-of-the-art equipment to grow various niche areas of research being conducted at the University of Wyoming. The facility has been designed to be easily reconfigurable, modular and expanded as different research areas grow or disperse over time.

Shell 3-D Visualization Center - Designed, engineered and integrated by Mechdyne Corporation, the laboratory combines high-resolution stereoscopic projections and 3D-computer graphics to create a virtual environment where researchers can analyze, interpret and share a wide variety of spatially related data. One of the laboratory’s many capabilities is its ability to model oil, gas, and water movements and interactions in the subsurface environment, which will aid researchers and energy companies in deriving maximum value from their mineral resources.

Breakthroughs that come from somebody’s curiosity are exactly what we’re looking for. - SER Director Mark Northam

The 3 pillars of SER: Energy Education | Energy Research | Energy Outreach

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Laramie – The Clear Choice

Known as the "Gem City of the Plains," Laramie’s sparkle resonates throughout the Rocky Mountain region. A safe and vibrant community of more than 30,000, Laramie offers the amenities of big-city living with the feel of a small town.

Explore all the fine dining, coffee houses and unique shopping opportunities. Enjoy numerous activities close to home, including historic buildings, museums and cultural events like Cheyenne Frontier Days or Laramie Jubilee Days. Or hit the road, as numerous outdoor activities are within mere minutes of city limits.

Check out a home event for one of UW’s 17 Div. I athletic programs, join an intramural or club team or just participate in some UW Pride activities. If you want it, we’ve got it here!

Travel Time to Surrounding Locations

- To Denver, Colo.: 2 hours
- To Cheyenne, Wyo.: 45 minutes
- To Snowy Range Ski Area: 35 minutes
- To cross country ski areas: 20 minutes
- To Vedauwoo recreation area: 15 minutes

Area Attractions

- Vedauwoo
- Happy Jack Recreational Area
- Curt Gowdy State Park
- Medicine Bow National Forest
- Grand Teton National Park
- Yellowstone National Park
Wyoming Scholars Award*
Provides $1,000 per year to students with a 3.5 cumulative high school GPA (4.0 unweighted scale) and a 25 composite ACT. This amount is in addition to any Hathaway Honors Scholarship award received.

Trustees’ Scholars Awards
The University of Wyoming will recognize a limited number of Wyoming’s top resident graduating seniors for their academic achievement as recipients of the highly competitive Trustees’ Scholars Award. Recipients are evaluated on their academic excellence (high school GPA, test scores, and curriculum rigor). The Trustees’ Scholars award, when combined with the Hathaway Honors award, provides the equivalent cost of tuition and mandatory fees (18 credit hours per semester, excluding summer sessions), double-occupancy room and an unlimited access dining plan.

- The Trustees’ Scholars Award is only available to first-time, entering resident freshmen seeking their first bachelor’s degree.
- This scholarship is renewable for up to eight semesters (four academic years) or up to the first bachelor’s degree, whichever comes first.
- Students must maintain full-time continuous enrollment (12 semester hours) during the fall and spring semesters each year but is not available for use during the summer semester.
- Students must maintain a 3.0 cumulative GPA (evaluated at the end of each spring semester).

NON-RESIDENT SCHOLARSHIPS: Direct High School Graduates
Rocky Mountain Scholars Award
The Rocky Mountain Scholars Award provides one of three amounts annually. Students are recognized with one of the three awards using a grid criteria including their cumulative high school GPA (4.0 unweighted scale) and composite ACT/SAT score. Additional scholarship details are available at uwyo.edu/scholarships.

Western Undergraduate Exchange (WUE)
The Western Undergraduate Exchange (WUE) provides an award amount equivalent to 150 percent of resident tuition, and is available to students who are residents of a WUE participating state. Students are recognized with a WUE award using a grid criteria including their cumulative high school GPA (4.0 unweighted scale) and composite ACT/SAT score. WUE participating states include: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah and Washington.

- To ensure Rocky Mountain Scholars and WUE consideration and eligibility students must submit all of their admission application materials and confirm enrollment by May 1. Rocky Mountain Scholar and WUE awards cannot be combined. Applications and confirmations received after May 1 will only be considered if funds remain available. Additional scholarship details are available at uwyo.edu/scholarships.

For more information on non-resident scholarships visit uwyo.edu/admissions/scholarships/non-residents.

Children of UW Alumni Tuition
Children of UW graduates are eligible to receive non-resident tuition equal to 150 percent of that paid by residents. The Child of Alumni tuition benefit is granted upon confirmation of parent UW degree completion. This program cannot be combined with the Rocky Mountain Scholars Award or WUE program. Eligible students are encouraged to also pursue merit, talent and UW Alumni Association scholarships. Visit uwyo.edu/admissions/alumnifreshman.

Wyoming resident scholarships: direct high school graduates
Hathaway Scholarship
The Hathaway Scholarship Program provides merit and need-based awards for qualifying students, determined by a combination of GPA, test scores and completion of high school curriculum requirements. The merit portion of the scholarship offers three levels of support.

- Honors: $3,360 per year - Minimum GPA of 3.50 and ACT of 25
- Performance: $2,520 per year - Minimum GPA of 3.00 and ACT of 21
- Opportunity: $1,680 per year - Minimum GPA of 2.50 and ACT of 19

Students must complete certain high school courses to be considered for Hathaway Scholarships and maintain specific satisfactory academic progress standards while attending UW to continue to receive their scholarship. Hathaway awards are valid for eight semesters (four years). Students should visit with their counselor and carefully review all Hathaway details at uwyo.edu/hathaway.

How to Apply
At UW, we welcome all students to apply and will consider each based on individual academic achievement. Submit a one-time, non-refundable $40 application fee, official high school transcripts and official ACT or SAT test scores for consideration. Apply online today at uwyo.edu/apply.

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At UW, we welcome all students to apply and will consider each based on individual academic achievement. Submit a one-time, non-refundable $40 application fee, official high school transcripts and official ACT or SAT test scores for consideration. Apply online today at uwyo.edu/apply.
The scholars program already has attracted top students, such as Bethany Orrick of Forney, Texas, who planned on attending college in Texas before receiving the scholarship. “I got a letter from CEAS that changed everything,” she says. “Within a couple days I had arranged a flight and was off to visit the campus. I was blown away, as nearly every hope was exceeded. Until then, only private university campuses had met my expectations. UW has an amazing engineering program, a beautiful campus, friendly people everywhere I looked, and was—ultimately—the most cost effective.”

Scholarships such as this prove the deciding factor for many students. “As an out-of-state student, I am very grateful for the scholarships,” Orrick says, “Without them, UW wasn’t an option. It was because of the scholarships that I even came to visit the campus and then fell in love with the university.”

Orrick, who entered UW in fall 2014, is majoring in both architectural engineering and environment and natural resources. “I hope that with the concurrent majors I will be prepared to understand both the engineering and impact of future developments to help build sustainable structures in the future.”

**Undergraduate Engineering Scholars Program**

As part of the University of Wyoming Tier-1 Initiative, the College of Engineering and Applied Science (CEAS) now offers competitive Undergraduate Excellence Scholarships—25 annually. Not only do recipients receive $6,000 of renewable annual funding, but they are also mentored in research and scholarship. Recipients are evaluated on their academic excellence (high school GPA, test scores and curriculum rigor). The scholarship provides $6,000 of annual funding to help cover the cost of tuition, room and board and associated fees. The scholarship is merit based and renewable for an additional three years for a total scholarship of $24,000. In the first two years of the program, a total of 48 scholarships were awarded annually. The total number of scholarship awards may increase substantially in years to come.

Awardees will be invited to participate in the “Engineering Scholars Program,” in which they will be given V.I.P. treatment including opportunities for undergraduate research, one-on-one work with professors, industrial opportunities, etc.

**Application Requirements and Deadlines**

To be considered for the Scholarship, the UW Admissions Office must have the following on or before Dec. 1:
- Application for admission and admission application fee
- The student must have a declared undergraduate major within the College of Engineering and Applied Science or be on ENUN (engineering undecided) status.
- Official high school transcripts
- Official ACT/SAT test scores
- Students selected to receive the scholarship must confirm their enrollment at UW by May 1.

Visit uwyo.edu/ceas/engineering-initiative/undegraduate-scholars.html to learn more about the scholarship.

*BRINGING IN THE BEST AND BRIGHTEST*

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*Bethany Orrick, Architectural Engineering and Environment and Natural Resources student*
Kendra Williams
Degree: B.S. ’12, Petroleum Engineering
Occupation: Drilling engineer
Company: Hess Corp. – Houston, Texas
Hometown: Pinedale, Wyo.
She said it: “What makes my job enjoyable is the fast pace. We are averaging less than 20 days per well we drill and strive to operate more efficiently while still being focused on safely executing operations. This provides many opportunities to test new technologies and learn a lot in a short amount of time.”

Dylan Mair
Degree: B.S. ’12, Chemical Engineering
Occupation: Production engineer
Company: Encana Corp. – Denver, Colo.
Hometown: Mountain View, Wyo.
He said it: “I love to contribute to a team that produces oil. The most challenging part is that there’s always something we can do better. The biggest thing for a production engineer is to get to know your wells and get to know how they’re doing and how to recognize a change and do diagnostics to catch problems early.”

Brittni Emery
Degree: M.S. ’13, Atmospheric Science
Occupation: Air quality meteorologist
Company: Inter-Mountain Labs Inc. – Sheridan, Wyo.
Hometown: Montevideo, Minn.
She said it: “The variety of my job makes it fun. Sometimes I am working with data while other times I am out in the field fixing our air-sampling equipment. As a person with a background in meteorology, I particularly enjoy working in air quality because it impacts both industry and the individual.”

Alicia Martin
Degree: M.S. ’13, Mechanical Engineering
Occupation: Mechanical maintenance engineer
Hometown: Evanston, Wyo.
She said it: “I enjoy the variety of equipment I am responsible for and being involved in root cause failure analysis, where I rely heavily on my materials science background and failure analysis skills gained from the mechanical engineering program at UW.”
WHAT’S NEXT?

We are a leader in energy production. With that great blessing comes a great responsibility to provide leadership. This is the opportunity we have. It’s more than just numbers and buildings. It’s an opportunity to improve the quality of life for the citizens of Wyoming, the nation and the world.

- Wyoming Gov. Matt Mead

WHAT’S NEXT?

One tangible impact of the Tier-1 Engineering Initiative will be the construction of new engineering buildings and renovation of the current building. The facilities will enable the delivery and completion of strategic imperatives defined by the UW Tier-1 Implementation Plan. That includes the High Bay Research Facility, the Michael B. Enzi STEM Facility and the Engineering Building Expansion.

The timeline: The various projects have completion dates scheduled for late 2015 and 2016.

The details: A new engineering complex north of the present CEAS building is estimated to cost $106 million—the largest single capital project in UW history—and includes the construction of a new purpose-built building equipped with the very latest education and research laboratory capabilities that will include dedicated collaboration activity spaces and forums. The opportunity will also be taken to renovate, rejuvenate and refresh the current Engineering Building.

What it means: These projects are intended to provide new spaces for modern instruction and research, including a new shop and student project areas; teaching and computer labs in an active-learning configuration; reconfigurable research labs with associated office and collaborative spaces; meeting/conference rooms; and an expanded drilling simulator facility.

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WHAT’S NEXT?