

	A	B	C	D	E	F	G	H
1	Admin Rec Priority	Final Budget Cmt Priority	Program Name	On-Going	One-Time	One-Time Match	Total	Description
2	1		University State Aid Block Grant	\$28,000,000			\$28,000,000	In general, the block grant funding supports the state's only university, established in 1886, as a land-grant institution with teaching, research and public service responsibilities. Additional state support is necessary
3	2		School of Energy Resources Operations	\$1,300,000			\$1,300,000	The SER Academic Program needs an Academic Director to reinvigorate enrollment, to work with academic departments to ensure continued delivery of required courses, and to coordinate the efforts of SER Faculty in their contributions to SER's mission. The Energy Policy Analysis Program is new to SER in FY2020. Its mission is "to inform, educate and develop pragmatic and effective energy solutions for Wyoming policymakers". The program will be highly transdisciplinary, and will require additional funding to support faculty and graduate student involvement, to purchase data and modeling software, and to support travel. We intend to convene a symposium annually for invited speakers, and to publish the proceedings of the symposium. Reinvigorate Centers of Excellence to align with the needs of the state in the coming period of Energy Transition, and to rebuild our Outreach program.
4	3		Center of Innovation for Flow Through Porous Media			\$5,000,000	\$5,000,000	Matching Funds for years two and three (\$500,000) of a seven-year commitment of \$1,000,000/yr from Abu Dhabi National Oil Company (ADNOC).Halliburton is discussing a commitment of \$2,850,000 over five years for a new partnership with COIFPM (and involving Hess). A key senior manager confirmed that they are actively seeking final approval. Matching fund request: \$1,420,000. \$568,000 needed in FY2021/22. Encana is discussing a research budget that will be in the \$1-2 million range over 2 years. Encana's VP of Exploration indicated that he fully support approval as this will follow a \$200,000 project that is currently underway at COIFPM. Matching fund request: \$750,000-\$1,000,000 needed in FY2021/22. High Priority – COIFPM submitted a proposal to the DOE for \$8,000,000. The proposal was down selected for further consideration. If the proposal is awarded funds, it will require match. Matching fund request: \$4,000,000. \$2,000,000 needed in FY2021/22. High Priority – Alchemy Sciences – The CEO of Alchemy Sciences is discussing an extension of the research partnership with COIFPM to Phase-II (\$500,000/year for 5 years) based on the early field successes resulting from the current collaboration. He characterized the likelihood as 75% or higher. Matching fund request: \$1,250,000. \$500,000 needed in FY2021/22. Halliburton is discussing that they will extend the current Halliburton-UW partnership at the average annual level of \$0.2 million/year for 4 years (a total of \$0.8 million). The current Halliburton-UW project finishes early this fall. Matching funds request: \$400,000. \$200,000 needed in FY2021/22. Undefined Matching Funds for future opportunity.

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5	4		Energy Graduate Assistantships		\$2,000,000		\$2,000,000	Request \$2 million in one-time state funding to support the University's research endeavors. The research supported by the Energy Science GA funding has had a direct, positive impact on Wyoming. More than 93% of the research conducted by Energy Science GAs and their faculty mentors has involved energy applications in the state. Furthermore, more than 50% of Energy Science GA recipients in the last round (FY19-FY20) were either Wyoming residents or UW alumni.
6	5		Faculty Chairs & Professorships Endowment			\$10,000,000	\$10,000,000	Request \$10 million in one-time state funding to provide a 1-for-1 match for private donations to create permanent endowments that support faculty members in Agriculture, Engineering, and the Science Initiative Program.
7	6		Trustees' Education Initiative (TEI)			\$3,000,000	\$3,000,000	Request \$3 million in one-time state funding to provide a 1-for-3 match for \$9 million in private donations that will create a permanent endowment to support TEI.
8	7		Tier 1 Engineering		\$1,000,000		\$1,000,000	Request \$1 million in one-time state funding for the purpose of raising the stature of the college of engineering and applied sciences toward tier one status.
9	8		School of Energy Resources Carbon Engineering - High Priority matching funds			\$23,300,000	\$23,300,000	\$18,700,000 – cost share for a recent award (tentative, pending successful negotiation of contract) of approximately \$100,000,000 by the DOE for design and construction at the UW Central Energy Plant of the Flameless Pressurized Oxy-combustion (FPO) technology. \$600,000 – development and operation of a proprietary third party technology (Charfuel®) pilot plant (18 ton/day) located near Denver, CO, to establish the performance required to manufacture value-added products. \$2,000,000 - Matching funds (2 to 1; private:state) to further support the development of a pre-commercial technology solution that will be located in the Gillette, WY vicinity to beneficiate Wyoming PRB coal and make it attractive to consumers currently buying higher energy content coals. The technology is currently undergoing field testing at the Fort Union site in Campbell County, WY. \$2,000,000 - Matching funds (2 to 1; private:state) to establish a combustion test facility at UW, that will enable research and technology development of flameless pressurized oxy-fuel (FPO) and its commercialization in Wyoming at a suitable location to be decided. An outline heads-of-agreement has been reached with a major technology stakeholder in the technology for UW to serve as the corporate technology developer for that company.

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10	9		School of Energy Resources Carbon Engineering - Matching funds		\$8,800,000		\$8,800,000	<p>\$1,700,000 – demonstrate the performance of a coal-derived asphalt paving material on a suitable road location. Field testing will be conducted with the support and collaboration of a large commercial road paving applicator. \$1,200,000 – batch commercial manufacture of a developed dry methane reforming catalyst for converting CO2 in the presence of natural gas into valuable petrochemical products. Long-term performance testing of the technology in independent pilot plant tests. \$1,800,000 - One-time funding to undertake pilot plant testing of UW-patented thermo-chemical processing of coal to establish the parametric engineering data-book in preparation for undertaking a prefeasibility engineering study. \$1,200,000 - One-time funding for pre-commercial manufacture of construction materials derived from Wyoming PRB coal and construction of a full size building for demonstration purposes. \$1,100,000 - One-time funding for pre-commercial manufacture and testing of carbon fiber and related materials derived from Wyoming PRB coal in automotive application light-weight composite materials and for use in electrical energy storage products with commercial entities. \$1,100,000 - One-time funding for conduct of agricultural field trials of a coal-based soil amendment product augmented with Wyoming-sourced nutrient material. Field testing to be conducted in collaboration with Wyoming Sugar Beet Association and Private Farming Community on various crop types. \$700,000 - One-time funding for scale-up manufacture and field testing of polymeric and coating materials derived from Wyoming PRB coal, in concert with a commercial chemical supply company.</p>
11	10		Blockchain Programmatic funding	\$2,000,000			\$2,000,000	The specific programs proposed at the University of Wyoming include an interdisciplinary Blockchain Certificate Program, an interdisciplinary FinTech Certificate Program, and the resources to teach introductory courses on blockchain technology. Certificate programs will be offered online and we believe will prove very popular with professionals already in the workforce.
12	11		College of Law			\$2,500,000	\$2,500,000	\$2.5 million to be matched by \$2.5 million in private donations to establish a permanent endowment(s) to support the College’s clinical and experiential learning program which will be housed in the new Simpson Center.
13	12		Rodeo		\$100,000		\$100,000	This funding allows the Athletics Department to continue serving the rodeo team with strength and conditioning training. It also allows the Athletics Department to continue providing for graduate assistants to supervise and coach the students.
14	13		Property Acquisitions		\$5,000,000		\$5,000,000	Request funding for potential property acquisitions North of Lewis Street.
15			UW Student Housing					Consider adding narrative and prioritization within the budget book.
16			Subtotal	\$31,300,000	\$16,900,000	\$43,800,000	\$92,000,000	
17								
18			Capital Construction					
19			Corbett Pool and War Memorial West Side Stands			\$74,300,000	\$74,300,000	
20			UW/Albany County School District #1 Laboratory School			\$28,899,882	\$28,899,882	
21			Subtotal			\$103,199,882	\$103,199,882	
22								
23			Total Exception Requests	\$31,300,000	\$16,900,000	\$146,999,882	\$195,199,882	