



**Request for Pre-proposals**  
**Montana Water Center Faculty Seed Grants**  
Funding cycle 3/1/2019– 2/28/2021  
Deadline for pre-proposals October 29, 2018



### Overview

The Montana Water Center invites pre-proposals for the annual **Montana Water Center Faculty Seed Grants**. The goal of this program is to help address water resource problems of significance to Montana and the region by stimulating cutting edge, water-related research among faculty and students across the Montana University System. For a description of past awardees, see: <http://www.montanawatercenter.org/facultyresearch/>.

Disciplinary and/or single PI proposals should not exceed \$15,000; interdisciplinary teams may apply for up to \$30,000, but these requests will need to justify the cross-disciplinary nature of the research team and questions. Priority will be given to clearly articulated proposals that (a) have high intellectual merit and the potential to advance knowledge, (b) clearly identify the applied relevance of the research to MT water stakeholders; (c) foster student training and involvement; and (d) demonstrate a compelling and realistic plan for how the seed funding will be leveraged to seek additional external funding. Competitive proposals from early-career faculty members will also be given priority.

Areas of interest include (but are not limited to):

- Climate and climate change: snowpack, drought, floods, water supply, effects on rivers
- Interactions between ground and surface water
- Biodiversity/ecosystem processes, links to physical processes
- Social-ecological systems and water resources
- Economic valuation of water resources
- Management and restoration of water resources
- The nexus of water, energy, and food systems
- Integrating assessment and management of water quality and water quantity
- Water policy
- Emerging tools and technologies in water sciences

One of the goals of the Montana Water Center is to encourage collaboration between university faculty and students and state and federal agencies, and to connect university research to key information needs of entities across the state with significant focus on water resources. In addition to the key areas of uncertainty outlined in the Montana State Water Plan (<http://dnrc.mt.gov/divisions/water/management/state-water-plan>), a specific list of research interests identified by several state and federal entities will be posted at [www.montanawatercenter.org/2019externalresearchneeds](http://www.montanawatercenter.org/2019externalresearchneeds) by Sept 20, 2018.

### Applicant Eligibility and Conflicts of Interest

Eligible applicants must have academic or research faculty appointments at one of the Montana Institutions of Higher Education. An applicant may not permit a federal employee to use his or her position for a purpose that is, or gives the appearance of being, in conflict of interest, either by giving the applicant an unfair advantage or by a desire for private financial gain.

### Timeline

The planned start date for these projects is March 1, 2019, pending the timing of the Congressional budget approval process for federal fiscal year 2019. The end date for all awards will be February 28, 2021.

Year	Date	Action
2018	Sept. 7	Request for pre-proposals
	October 29th	Pre-proposals due electronically to the Montana Water Center by 5 pm.
	Week of October 29th	Pre-proposals reviewed and ranked; successful candidates notified to submit full proposal
	November 23	Full proposals due
2019	January 13	Deadline for notification of awards
	March 1	One-year subcontracts issued by MSU Office of Sponsored Programs
2020	February 28	One-year sub award extensions executed
	May 1	First year report due to Water Center
2021	May 1	Final report due to the Water Center

### Pre-Proposal Format

Pre-proposals should adhere closely to following format (with an 11 point font and 0.5 inch margin minimum):

#### Pages 1 and 2:

- Project Title
- Duration of the Project
- Funds Requested and Non-Federal Match Funds (**must be a 2:1 match** [\$2 match to \$1 federal funding request])
- Principal and Co-Principal Investigators (include affiliations, phone, fax, and email addresses)
- Project Description consisting of these sections: (1) background and problem statement, (2) research questions or hypotheses, (3) research approach, methods, and timeline, (4) predicted outcomes, benefit, plan for leveraging the seed grant for future funding, (5) brief statement of how students (graduate or undergraduate) will be involved.

**Page 3:** Literature Cited

**Page 4:** Budget (this can be a rough estimate for the pre-proposal, use format shown below).

**Page 5:** Budget Justification: brief description of all budgeted items.

**Page 6+:** Brief professional biographie(s) of the principal investigators, support letters (if app.)

### **Pre-proposal submission**

Complete pre-proposals must be sent as email attachments to both Wyatt Cross: [wyatt.cross@montana.edu](mailto:wyatt.cross@montana.edu) and Whitney Lonsdale: [whitney.lonsdale@montana.edu](mailto:whitney.lonsdale@montana.edu). Pre-proposals must arrive by 5:00 p.m. Oct. 29, 2018.

### **Non-Federal Match, Indirect Costs, and Award considerations**

Applicants must match each federal dollar requested with not less than two non-federal dollars. Successful pre-proposal applicants will need to submit one or more letters of match commitment at the time they submit their full proposals, and those who are issued awards will be required to track and document their match expenditures. No indirect costs may be charged to these grants. The amount of IDC returns foregone on both the federal and match portions of the funding can be considered as part of the match. Water Center personnel will be happy to help applicants craft their budgets, if they aren't familiar with these requirements and this format.

Selected final proposals will be forwarded to the USGS for review and approval. Awards will be made to the Montana Water Center, and then from the Montana Water Center to grantees.

Grantees and their departments will be responsible for their own budget tracking.

### **Budget Breakdown**

An example format table is provided below. The project budget should comprise the following line items, each containing federal request and non-federal match:

1. Salaries and Wages. Identify the individuals and categories of salaries and wages, estimated hours or percentage of time, and the compensation rate. Tuition remission and other forms of compensation paid as or in lieu of wages to students are allowable provided that the tuition or other payments are reasonable compensation for the work performed and are conditioned explicitly upon the performance of necessary work.
2. Fringe Benefits. Calculate rates/amounts in conformity with the university's current standard. Show the basis of the rate computation.
3. Supplies. Indicate estimates for office, laboratory, computing, and field supplies. Provide information on any specific item that represents a significant portion of the proposed amount.
4. Equipment. Identify nonexpendable personal property having a useful life of more than one (1) year and an acquisition cost of more than \$5,000 per unit. Anything shorter-lived or less expensive than this should be considered 'supplies'.
5. Services or consultants. Identify the project tasks for which these services would be used. List the anticipated consultants, the estimated amount of time required, and the quoted rate per day or hour.

6. Travel. Show the number of trips, type of trip (field, scientific meeting, or conference attendance), destinations, number of travelers, per diem and local reimbursement rates allowed by the applicant, and any miscellaneous expenses for each trip

7. Other direct costs. Itemize the costs not included elsewhere; e.g., shipping, telemetry, computing, equipment-use charges, or other expenses. Provide breakdowns showing how the cost was estimated.

8. Total of the direct costs.

9. Indirect costs. Specify the entire project's (waived) indirect costs in the non-federal column based on the university's current federal rate agreement (check with your Office of Sponsored Programs for your most recent rate).

10. Total estimated costs. Total items (1) through (9).

An example:

Budget Categories	Federal	Non---Federal Match	Total
1. Salaries and wages			
Sue Smith, Asst .Professor			
Joe Brown, MS student			
Total Salaries and Wages:			
2. Fringe benefits (XX% faculty, YY% students)			
3. Supplies			
4. Equipment			
5. Services, consultants			
6. Travel			
7. Other direct costs			
8. Total direct costs			
9. Indirect costs			
10. Total estimated cost			

This request is issued under the authority of the Water Resources Act, section 104b, administered by the US Department of Interior through the Water Resources Division of the US Geological Survey. Administering this competitive grant program is the responsibility of the Montana Water Center. All information requests should be directed to:

**Wyatt F. Cross**  
 Director  
 605D Leon Johnson Hall  
 MT State University  
 Bozeman, MT, 59717  
 Fax: 406---994---1774  
 Tel: 406---994---6690

**John I. LaFave**  
 Associate Director  
 MT Bureau of Mines  
 Montana Tech  
 Butte, MT 59701  
 Fax: 406---496---4451  
 Tel: 406---496---4155

**Andrew Wilcox**  
 Associate Director  
 Dept. of Geosciences  
 U. of Montana  
 Missoula, MT,  
 Fax: 406---243---4028  
 Tel: 406---243---4761

**Whitney Lonsdale**  
 Assistant Director  
 605D Leon Johnson  
 MT State University  
 Bozeman, MT 59717  
 Fax: 406---994---1774