



FY 19 Request for Pre-Proposals

Closing Date: October 15, 2018 at 5 PM (Mountain Time)

Pre-Proposals are invited for the Colorado Water Institute FY 2019 water research program.

The Colorado Water Institute (CWI) is established under the federal Water Resources Research Act, as amended, and is authorized by the Colorado legislature, most recently in 2006, under S.B. 06-183. At the federal level, CWI is one of 54 water institutes administered by the U.S. Geological Survey in the Department of Interior. Under Section 104(b) of the Water Resources Research Act, CWI is to ‘...plan, conduct, or otherwise arrange for competent research...’ that fosters the entry of new scientists into water resources fields, the preliminary exploration of new ideas that address water problems or expand understanding of water and water-related phenomena, and disseminates research results to water managers and the public. The research program is open to faculty in any institution of higher education in Colorado that has ‘demonstrated capabilities for research, information dissemination, and graduate training ... to resolve State and regional water and related land problems.’

Priority Research Topics:

Projects must be located in Colorado and should address priority issues identified in Colorado’s Water Plan. Special consideration will be given to projects that include climate change aspects and advance the implementation of Colorado’s Water Plan. For the FY2019 competition, the CWI Advisory Committee for Water Research Policy has identified needs for new water knowledge that will assist in addressing the following issues for Colorado:

- Quantify environmental and recreational economic impacts of the 2018 drought
- Advance the understanding of irrigation return flows on streamflow timing and volume, water quality and stream temperature, and riparian ecosystems.
- Evaluation of soil health practices on water capture, ecosystem health, and carbon capture.
- Develop methods and tools for incorporating multiple water and climate risks in land use planning to increase community and watershed resiliency
- Improving Streamflow Estimation in Colorado Ungauged Basins

Interested applicants interested in these topics are encouraged to contact Reagan Waskom at reagan.waskom@colostate.edu for additional details.

Funds Available:

The FY 2019 CWI Request for pre-proposals is supported by the Colorado Water Conservation Board and the U.S. Geological Survey, pending state and federal budget

allocations. CWI research funds are awarded through a competitive process guided by the CWI Advisory Committee. Project budgets must not exceed \$50,000 of total funds requested.

Expected Award/Start Date:

Projects funded with federal funds will have a March 1, 2019 start and February 29, 2020 end date. Projects funded with CWCB funds will have a July 1, 2019 start and a June 30, 2020 end date.

Pre-Proposal Review Process:

All pre-proposals are due to the CWI office by October 15, 2018 at 5 PM (MT). Pre-proposals will be reviewed before ranking by the CWI Advisory Committee. The general criteria used for pre-proposal evaluation include: (1) scientific merit; (2) responsiveness to RFP; (3) qualifications of investigators; (4) originality of approach; (5) budget; and (6) extent to which Colorado water managers and users are collaborating.

Eligibility:

The competition is open to faculty and researchers at Colorado's public research universities.

Applications Not Eligible For Funding:

Applications submitted by an investigator that has not met reporting requirements on a previous award administered or awarded by CWI.

Pre-Proposal Submission:

Pre-Proposals are to be submitted electronically in WORD format and are to be received no later than **5 PM (MT) on October 15, 2018**. Submit to nancy.grice@colostate.edu

Pre-Proposal Preparation Guidelines:

Pre-proposals must not exceed 2 single spaced pages, including budget. Format guidelines are as follows:

- 12 point font size
- Times New Roman font
- 1 inch margins (all sides)

Pre-Proposals must include the following items:

1. **Title.** Concise but descriptive.
2. **Principal Investigator name(s) and university.** Provide name, academic rank, university phone number and email address.
3. **Project Type.** Choose from the following: Research, Information Transfer, Information Management System, Education, or Other (please specify).
4. **Focus Categories.** Maximum of three – See Attachment A.

5. **Research Category.** Choose a category from the following list that most accurately applies to the research that will be conducted: Social Sciences, Groundwater Flow & Transport, Water Quality, Biological Sciences, Engineering, or Climate & Hydrologic Process.
6. **Keywords.** Provide three keywords, of your choice, descriptive of the work.
7. **Start Date.** March 1, 2019
8. **End Date.** February 29, 2020
9. **Location** where the work is to be conducted in Colorado.
10. **Congressional District** of the university where the work is to be conducted.
11. **Abstract.** Provide a brief (one-page or less) description of the problem, methods, objectives, and expected outcomes of the proposal.
12. **Statement of regional or State water problem.** Include an explanation of the need for the project - who wants it and how it benefits Colorado.
13. **Statement of the results or benefits.** Specify the type of information that is to be gained and how it will be used.
14. **Nature, scope, and objectives of the project, including a timeline of activities.**
15. **Methods, procedures, and facilities.** Provide enough information to permit evaluation of the technical adequacy of the approach to satisfy the objectives.
16. **Related research.** (Research projects only) Show by literature and communication citations the similarities and dissimilarities of the proposed project to completed or on-going work on the same topic.
17. **Budget Breakdown.** Provide a brief preliminary budget using the format provided. (see [Attachment B](#)) Indirect costs are not allowed. **Funds will not be approved for faculty salaries, student tuition, or equipment*.**
18. **Budget Justification.** Breakdown and justify expenses.
It is **mandatory** that you follow the format as exemplified in [Attachment C](#).
19. **Department Head Contact Information.** Provide name, phone number, and email.
20. **Department Accountant Contact Information for Pre and Post Award.** Provide name, phone number, email, for both pre and post award.
21. **Office of Sponsored Programs Team Leader Contact Information.** Provide name, phone number, and email.
22. **Training potential.** Estimate the number of graduate and undergraduate students, by degree level, who are expected to receive training in the project. (See Attachment D)

Pre-Proposals chosen for funding will be provided with guidelines for full proposal and budget format. Full proposals will be due December 14, 2018.

Deliverables:

Funded projects will be required to submit a completion report within 60 days of project end date addressing the description of the problem, research objectives, methodology, principle findings and project accomplishments including training provided, publications and impact. In addition, the PI will be required to write one CWI newsletter article detailing project accomplishments and impact. Principal Investigators may be asked to provide oral briefings to the CWI Advisory Committee, the Colorado Legislature and the Colorado Water Congress. Completion reports submitted must be in compliance with the guidelines that will be provided.

Financial Policy:

The PI is ultimately responsible for CWI-funded accounts. If the budget is over expended or expenditures were improperly charged, the PI and his/her department or college are responsible for providing funds for the unauthorized spending.

Questions:

Please contact Reagan Waskom by phone at (970) 491-6308 or by e-mail at: Reagan.Waskom@ColoState.edu if there are questions about this solicitation.

Please visit <http://www.cwi.colostate.edu> for a full electronic version of this Request for Pre-proposals and for the CWI Procedural and Editorial Guidelines for Principal Investigators.

Attachment A

ACID DEPOSITION	ACD
AGRICULTURE	AG
CLIMATOLOGICAL PROCESSES	CP
CONSERVATION	COV
DROUGHT	DROU
ECOLOGY	ECL
ECONOMICS	ECON
EDUCATION	EDU
FLOODS	FL
GEOMORPOLOGICAL PROCESSES	GEOMOR
GEOCHEMICAL PROCESSES	GEOCHE
GROUNDWATER	GW
HYDROGEOCHEMISTRY	HYDGEO
HYDROLOGY	HYDROL
INVASIVE SPECIES	INV
IRRIGATION	IG
LAW, INSTITUTIONS, AND POLICY	LIP
MANAGEMENT AND PLANNING	M&P
METHODS	MET
MODELS	MOD
NITRATE CONTAMINATION	NC
NON POINT POLLUTION	NPP
NUTRIENTS	NU
RADIOACTIVE SUBSTANCES	RAD
RECREATION	REC
SEDIMENTS	SED
SOLUTE TRANSPORT	ST
SURFACE WATER	SW
TOXIC SUBSTANCES	TS
TREATMENT	TRT
WASTEWATER	WW
WATER QUALITY	WQL
WATER QUANTITY	WQN
WATER SUPPLY	WS
WATER USE	WU
WETLANDS	WL

Budget Breakdown Example

Project Title: [Type project title here]

Cost Category	Total
Salaries and Wages	
Student Hourly (Undergraduate) Wages	\$ 3,000
GRA Wages	\$ 500
Total Wages	\$ 3,500
Fringe Benefits	
(Provide % of effort for each employee category & amount in budget justification)	
Student Hourly	\$ 18
GRA	\$ 36
Total Fringe Benefits	\$ 54
Supplies	\$ 71
Services or Consultants	\$ 0
Travel	\$ 967
Other direct costs	\$ 408
Total direct costs	\$ 5,000
Indirect Costs	
Total Project Costs	\$ 5,000

Funds will not be approved for equipment*.

Budget Justification Example

Project Title: [Type project title here]

<p>Salaries and Wages for PIs. Provide personnel, title/position, estimated hours and the rate of compensation proposed for each individual</p>
<p>Salaries and Wages for Graduate Students. Provide personnel, title/position, estimated hours and the rate of compensation proposed for each individual. (Other forms of compensation paid as or in lieu of wages to students performing necessary work are allowable provided that the other payments are reasonable compensation for the work performed and are conditioned explicitly upon the performance of necessary work. Also, note that tuition has its own category below and that health insurance, if provided, is to be included in fringe benefits.)</p>
<p>Salaries and Wages for Undergraduate Students. Provide personnel, title/position, estimated hours and the rate of compensation proposed for each individual. (Other forms of compensation paid as or in lieu of wages to students performing necessary work are allowable provided that the other payments are reasonable compensation for the work performed and are conditioned explicitly upon the performance of necessary work. Also, note that tuition has its own category below and that health insurance, if provided, is to be included in fringe benefits.)</p>
<p>Salaries and Wages for Others. Provide personnel, title/position, estimated hours and the rate of compensation proposed for each individual.</p>
<p>Fringe Benefits for PIs. Provide the overall fringe benefit rate applicable to each category of employee proposed in the project. Note: include health insurance here, if applicable</p>
<p>Fringe Benefits for Graduate Students. Provide the overall fringe benefit rate applicable to each category of employee proposed in the project. Note: include health insurance here, if applicable</p>
<p>Fringe Benefits for Undergraduate Students. Provide the overall fringe benefit rate applicable to each category of employee proposed in the project. Note: include health insurance here, if applicable</p>
<p>Fringe Benefits for Others. Provide the overall fringe benefit rate applicable to each category of employee proposed in the project. Note: include health insurance here, if applicable</p>

Tuition for Graduate Students.
Tuition for Undergraduate Students.
Supplies. Indicate separately the amounts proposed for office, laboratory, computing, and field supplies. Provide a breakdown of supplies in each category.
Field Supplies: Batteries at \$10/each = \$10 Laboratory Supplies: Suspended sediment filters = \$61
Services or Consultants. Identify the specific tasks for which these services, consultants, or subcontracts would be used. Provide a detailed breakdown of the services or consultants to include personnel, time, salary, supplies, travel, etc.
N/A
Travel. Provide purpose and estimated costs for all travel. A breakdown should be provided to include locations, number of personnel, number of days, per diem rate, lodging rate, mileage and mileage rate, airfare (whatever is applicable).
Travel from Fort Collins to and from the Colorado River Trailhead (closest access to field sites) 155 miles x \$0.52/mile x 12 trips = \$967
Other Direct Costs. Itemize costs not included elsewhere, including publication costs. Costs for services and consultants should be included and justified under "Services or Consultants (above)". Please provide a breakdown for costs listed under this category
Camping per diem: \$17/day x 12 days x 2 people = \$408
Indirect Costs. Provide negotiated indirect ("Facilities and Administration") cost rate.

Funds will not be approved for equipment*.

Student Support

Project Title: [Type project title here]

Please provide the following information for students that will be involved in this project:

Student Name	Degree Level (Undergraduated, Masters, Ph.D., Post-Doc)	Area of Study (Discipline)	Thesis or Dissertation to be completed? Yes/No