



College of Agriculture, Urban
Sustainability and Environmental
Sciences

Water Resources Research Institute
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DC Water Resources Research Institute (DCWRRRI) Request for FY2011 Proposals

About DCWRRRI: The Water Resources Research Institute (WRRRI) at the University of the District of Columbia (UDC) was created in 1973 by the Water Resources Research Act of 1964 (PL 88-379) which established a federal/state partnership in research, information transfer, and education of new experts in areas related to water resource management. DCWRRRI is one of a network of Institutes at land-grant universities, partly funded by the US Geological Survey (USGS), under the National Water Resources Research Institutes program. *The mission of DCWRRRI is to provide the District of Columbia with interdisciplinary research support to identify DC water resource problems and contribute to their solutions.* DCWRRRI maintains a website at www.udc.edu/wrri to highlight its mission and programs and post electronic copies of publications on DCWRRRI-sponsored research projects.

CALL FOR PROPOSALS: The DCWRRRI Seed Grant Program is requesting proposals for research, training and information transfer related to critical areas of DC surface water, groundwater, and drinking water quantity and quality.

Submission Eligibility: Eligible proposals must have a Principal Investigator who is a faculty member affiliated with any DC-area university, including any of the schools within the DC University Consortium, including *American, Catholic, George Washington, Georgetown, Howard, and UDC*. Principal Investigators from any other universities should contact DCWRRRI regarding eligibility.

Submission Requirements: Proposals must be submitted electronically in **Microsoft Word** to whare@udc.edu no later than **5:00 pm November 19th, 2010**. Proposals must follow the DCWRRRI Seed Grant Proposal Guidelines (as shown on Attachments 1 and 2) and must include a completed Budget Breakdown Form (provided as Attachment 3).

- The maximum amount of funds requested cannot exceed \$15,000.
- A 1:2 federal to non-federal match must be provided. The total federal match includes funding from the USGS/DCWRRRI Seed Grant program as well as any other federal funds.
- Projects may include both cash and “in-kind” match. University indirect costs are typically waived in this program. If the associated university allows waiver of indirect costs, these costs may be used as in-kind match.
- Preference will be given to research proposals that include cash and/or in-kind matching by non-university District stakeholders.
- **All proposed research must demonstrate student training potential and identify proposed student involvement.**
- Preference will be given to research proposals addressing issues identified by the DCWRRRI Advisory Board shown in Attachment 3.
- All Seed Grant recipients must provide a report in the appropriate USGS format and must include a conference presentation, Water Highlights article, and/or journal publication on DCWRRRI-supported research.
- Innovative, multidisciplinary research approaches are encouraged, as are projects involving multiple university collaboration within the District of Columbia.

Review Process, Award and Completion Dates: Proposals will be reviewed by a Technical Advisory Committee to be organized through DCWRRRI, with final proposals reviewed by the DCWRRRI Stakeholder Advisory Board. Selected research projects will be submitted by DCWRRRI to the USGS in mid-January 2011 for the award announcement in February 2011. Funds are expected to be available in March 2011. Projects must be completed no later than February 28, 2012. *Questions should be addressed to DCWRRRI Director, William Hare, at (202) 274-7133 or whare@udc.edu.*

**DCWRI FY2010 USGS SEED GRANT RFP
ATTACHMENT 1
SUBMISSION GUIDELINES**

Proposals must be submitted electronically in **Microsoft Word** to whare@udc.edu no later than **5:00 pm November 19, 2010** using the following format:

1. Title. The project title should be concise but descriptive of the effort.
2. Project Type. Research, Information Transfer, Information Management System, Education, or Other Please specify.
3. Focus Categories. List a maximum of three focus categories, with the most preferred focus category first. A list of focus categories is provided in **Table 1**. Enter the abbreviations in capital letters and separate them by commas.
4. Keywords. Enter keywords of your chosen descriptive of the work.
5. Start Date. Enter the actual start date of the project (March 1, 2011).
6. End Date. Enter the estimated end date for the project (February 28, 2012).
7. Principal Investigator(s). Provide name, academic rank, university, email address and phone number for each principal investigator.
8. Congressional District. University district where the research is to be conducted;
9. Abstract. Provide a brief (one-page) description of the problem, methods, and objectives. Please be cognizant this information will be entered into a Website space provided by WRI, upon selection).
10. Title. Please use the same title as was entered in number 1 above.
11. Statement of critical regional or State water problem. Include an explanation of the need for the project, the stakeholders, and other relevant details of the situation of need.
12. Statement of results or benefits. Specify the type of information that is to be gained and how it will be used.
13. Nature, scope, and objectives of the research. Include a timeline of activities to accomplish the research.
14. Methods, procedures, and facilities. Provide enough information to permit evaluation of the technical adequacy of the approach to satisfy the objectives.
15. Related Research. Show by literature and communication citations the similarities and dissimilarities of the proposed project by complete or on-going research on the same topic.

16. Training potential. Indicate the number and level of graduate and undergraduate students, by field of study and degree that are expected to receive training in the project.

17. Budget Breakdown. The attached Budget Breakdown form must be completed and included with the proposal.

18. Budget Justification. Provide a brief statement in each category justifying use of the funds requested.

19. Investigator's qualifications. Include a resume(s) of the principal investigator(s). No resume shall exceed two pages or list more than 15 pertinent publications.

TABLE 1: FOCUS CATEGORIES

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

**DCWRRI FY2011 USGS SEED GRANT RFP
ATTACHMENT 2
BUDGET BREAKDOWN**

Proposed Start Date: March 1, 2011	Proposed Completion Date: February 28, 2012		
Project Number: (to be assigned by institute)			
Project Title:			
Principle Investigator (s):			
Cost Category	Federal	Non Federal	Total
1. Salaries and Wages:	\$	\$	\$
-Principal Investigator (s)			
-			
-			
-			
Total Salaries and Wages	\$	\$	\$
2. Fringe Benefits			
3. Supplies			
4. Equipment			
5. Services and/or Consultants			
6. Travel			
7. Other Direct Costs			
8. Total Direct Costs			
9. Indirect Costs on Federal Share	XXXXXXXXXX		
10. Indirect Costs on Non- federal Share:	XXXXXXXXXX		
11. Total Estimated Cost	\$	\$	\$

DCWRRRI FY2010 USGS SEED GRANT RFP
ATTACHMENT 3
PREFERRED RESEARCH PRIORITIES

The DCWRRRI Stakeholder Advisory Board is comprised of representatives from several major water stakeholders in the District of Columbia. Proposals addressing research priorities identified by the DCWRRRI Stakeholder Advisory Board are preferred. For FY2010, the research priorities identified by the DCWRRRI Stakeholder Advisory Board include the following:

- Research on the design and implementation of freshwater monitoring systems, particularly with respect to the Chesapeake Bay
- Research to support the objectives of toxin monitoring and prevention and river restoration, particularly with respect to the Anacostia River
- Research to support the Potomac drinking water source protection partnership, including collaborative planning between upstream agricultural communities and downstream urban communities
- Research to address feasibility of application of new technologies to meet regulatory requirements for stormwater, particularly with respect to nutrient management and pesticide safety.
- Research on clean cities and sustainable urban infrastructure that minimize water use or improve or minimize impacts to water quality
- Research on prevention of contamination of water supplies, particularly by cryptosporidium or atrazine
- Research on restoration science, focusing on monitoring and measurement of the benefits of ecosystem services over baseline conditions, particularly with respect to tidal areas
- Research on techniques for measuring natural resources economics, particularly with applications for the District of Columbia
- Research on water and energy interrelationships