

NOTE: funding is contingent on Congressional appropriation to the NJWRRI

CALL FOR PROPOSALS

New Jersey Water Resources Research Institute
FY 2010 Grants Program
DEADLINE: FRIDAY NOVEMBER 13, 2009

The New Jersey Water Resources Research Institute invites proposals for research addressing water resource issues in the state. We expect to fund 2 larger research projects conducted by faculty and to fund 4-5 grants-in-aid to graduate students to support thesis research.

The mission of the NJWRRI is to fund research that addresses critical water resource problems in New Jersey, and by so doing, to produce the water resource professionals needed to protect and manage water in our increasingly crowded state. To this end, the Institute *especially encourages proposals from junior faculty* to develop research programs targeting priority water resource issues, and from graduate students to develop thesis research projects on these issues.

Two types of project are invited: a) research projects, which address unanswered questions in water resource sciences, and b) information transfer projects, which propose activities to make information available to user communities.

FACULTY-INITIATED PROJECTS: Two projects to be funded at a level of **\$30,000 per project**. It will be possible to apply for a second year of funding at the same level, but a second year is not guaranteed. The investigator should indicate how the funding will act as a "seed grant" to spur the development of a larger research program on water resource problems, and what other sources of funding may be available or may be sought to continue the research.

GRADUATE STUDENT GRANTS-IN-AID: Four to five awards of up to **\$5,000 each**. These funds are intended to allow graduate students to pursue research that is not supported by other grant funds. The funds should enable the student to carry out preliminary research to support other grant applications. The funds can be used for research assistant support, travel, supplies, or other direct research expenses. The student will be expected to present the results of the research at a scientific meeting (regional or national).

All proposals must be explicitly related to the research priorities (attached).

Proposals will be evaluated by the Water Resources Science Advisory Council (a diverse panel of experts representing academic researchers, government scientists involved in management of water resources, and water resource experts in the private sector) according to criteria of 1) scientific merit, 2) promise for future scientific

productivity (e.g., follow-on funding), and 2) relevance to New Jersey's water resource needs.

Summaries of research projects funded in recent years can be found on the NJWRRI website (<http://njwrri.rutgers.edu/>).

Please note that the Federal Government requires a 2:1 match of dollars (two **non-Federal** dollars for each dollar of WRI support). The match usually includes up to a month of salary of the faculty investigator or graduate student advisor and the indirect costs and fringe benefits associated with this salary. Matching dollars can be provided from any non-federal source. The policy of the NJWRRI is to exclude faculty summer salary.

Please submit:

- **18 paper copies (double-sided) of the proposal**
- **an electronic copy as a MS WORD file (not pdf) on CD or by email to Diana Morgan, Dept. of Environmental Sciences, 14 College Farm Road, Cook Campus, Rutgers University, New Brunswick, NJ 08901**
e-mail: njwrri@aesop.rutgers.edu.

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For questions about the proposal or the budget, please contact Diana Morgan at njwrri@aesop.rutgers.edu.

Proposals that do not follow the guidelines below will be returned.

FOR ALL PROPOSALS: Use a minimum 12-point typeface and 1" margins.

(a) FORMAT FOR FACULTY PROJECTS (\$30,000)

10 pages double-spaced maximum, including sections 1-8 below:

1. Title
2. Investigator(s) name(s), institutional address(es), telephone and FAX numbers, email address(es).
3. Amount requested
4. Abstract – 250 words maximum. This should inform readers about the problem to be addressed, the general approach to be taken, and the results that are anticipated. It will be sent to potential reviewers and used on the WRI website and USGS publications.
5. Priority issue(s) that is/are addressed by the research: Briefly describe how the research will contribute to the understanding and/or solution of the problem, and why it is important to New Jersey.
6. Background: Describe the scientific rationale for the proposed work. This section should include the review of relevant literature, and should indicate how the proposed research will contribute to new knowledge in the relevant field.
7. Specific objectives and/or hypotheses of the study
8. Research methods, experimental design, and expected results: Include sufficient information so that reviewers on the Advisory Council can judge the technical

competence and originality of the work, the likelihood that the work can be completed in the specified time, and that the results will constitute important new and useful information. Please describe what products will result from the one-year funding.

9. Previous support from the NJWRRI. If this is a proposal to continue a project begun during the current fiscal year, include within the proposal (10 pages) a progress report on the work conducted to date, including any presentations or publications. If not, please indicate whether support has been provided from the NJWRRI in the past for other projects.

10. Literature Cited (not included in the 10 page limit)

11. Two-page curriculum vitae for each principal investigator, Include the 10 most relevant publications (maximum) (not included in the 10 page limit).

12. Budget (use attached form) and brief budget justification.

(b) FORMAT FOR GRADUATE STUDENT GRANTS-IN-AID (\$5,000)

4 pages single-spaced maximum, 12 pt type and 1” margins, not including literature cited, CV and budget

NOTE: the proposal must be written BY the student, not the faculty advisor!!

1. Title

2. Graduate student name, degree sought and graduate program; institutional address, telephone and FAX numbers, email address.

3. Thesis advisor name, address, telephone and FAX numbers, email address

4. Amount requested

5. Priority issue(s) that is/are addressed by the research. Briefly describe how the research will contribute to the understanding and/or solution of the problem, and why it is important to New Jersey. Include a brief literature review that places the proposed research in its scientific context.

6. Specific objectives and hypotheses of the study.

7. Research methods, experimental design, and expected results.

Include sufficient information so that reviewers on the Advisory Council can judge the technical competence of the work, the likelihood that the work can be completed in the specified time, and that there will be specific products and outcomes from the research.

8. Indicate if you have received prior funding from the NJWRRI, and if so, give a brief progress report. List any presentations or publications which have resulted from the prior funding. (not included in 4-page limit)

9. Literature Cited (not included in the 4-page limit).

10. Budget (use attached form) and brief budget justification.

11. One-page CV, describing previous training, any publications or presentations, and professional goals (not included in 4-page limit)

NOTE: The student will be expected to present the results as a poster or oral presentation at meeting of an appropriate research organization.

FORMAT FOR THE BUDGET:

This format is required by USGS. Please use the attached sheet.

1. It is the policy of the NJWRRI that funds should not be used for summer salary for full-time faculty.

please post and circulate
<http://njwrri.rutgers.edu/>

FY2010 Program

2. It is a Federal requirement of the program that these grants are matched by non-Federal funds on a 2 non-Federal dollars:1 Federal dollar basis. Pro-rated salary for time spent by the faculty advisor on the project can be allocated to the non-Federal contribution, as can the indirect costs charged by the institution. No Federal dollars may be used for indirect costs.

3. Itemize the non-Federal dollars being used for the match.

4. Provide on a separate sheet a narrative justification for the specific dollar allocations (no more than one page). An Excel spreadsheet is also available from the NJ WRRI website and is set up to calculate the categories correctly.

BUDGET

P.I. _____

Item	Federal Request	Non-Federal Match	Total
Salary			
Faculty Advisor	xxxxxxxxxxxxxxxxxx		
Student wages			
Other			
Total			
Fringe Benefits @ ___%			
@ ___%			
@ ___%			
Materials and Supplies (justify on separate sheet)		xxxxxxxxxxxxxxxxxx	
Equipment (justify on separate sheet)		xxxxxxxxxxxxxxxxxx	
Travel (justify on separate sheet)		xxxxxxxxxxxxxxxxxx	
Other Direct Costs (justify on separate sheet)		xxxxxxxxxxxxxxxxxx	
Total direct cost	A	B	
Indirect Costs @ ___%	xxxxxxxxxxxxxxxxxx	C (Use formula below)	
Total	A	B+C	

Compute the indirect cost portion of the match as “(total federal request[A] + total direct nonfederal dollars match [B]) x indirect cost rate”

RESEARCH PRIORITIES

Research priorities mandated by Section 104(b) of the Water Resources Research Act of 1984 as amended 2006 are as follows:

I. Water supply reliability

Proposals can address any aspect of supplying water for human and ecological needs. This may include (but not be limited to): water re-use, projected water supply issues for municipalities or regions, water availability for aquatic ecosystems, limitations to water supply such as contamination; water infrastructure, watershed management

II. Novel approaches to water resource problems and water science

Proposals can address any aspect of water resources research as long as they clearly demonstrate the importance of a water resource issue to New Jersey, and demonstrate that the proposed scientific methods and/or solution to a resource problem represent new ideas in the field. Projects may address topics in water resource engineering, aquatic ecology, hydrology, water quality issues, socio-economic aspects of water resources, or the communication of water resource information to the public (including school programs).

III. Information Transfer

Projects that explore and develop methods of communicating water resource information to the public (examples may be, but are not limited to: K-12 classroom teaching, informal science education, citizen science projects) are encouraged