



INDIANA WATER RESOURCES RESEARCH CENTER 2017 REQUEST FOR 104B PROPOSALS

Indiana Water Resources Research 104B Grant Program

Funding Cycle: March 1, 2017 – February 28, 2018

Submission Deadline: Monday, November 14, 2016 at 5PM (Eastern)

Project Title and List of Reviewers due: Monday, November 7, 2016

PROGRAM DESCRIPTION

The Indiana Water Resources Research Center (*IWRRC*) invites faculty from **Indiana's colleges and universities** to submit water related proposals for possible funding. The Indiana grant program is supported via an annual grant from the U.S. Department of Interior, U.S. Geological Survey, as part of the federal Water Resources Research Act of 1984 (Program 104B). This program provides a base of support for Indiana's water resource research needs. **Note: we have not received official notification for the levels of federal support in the 2017 program. As a result, the loss of the entire program, reductions in funding levels, and funding delays are possible.**

PROJECT AREAS

The IWRRC program supports research in all areas of water research including: biology, microbiology, ecology, hydrology, civil engineering, irrigation, geology, wildlife management, social sciences, improvements in water use efficiency, and aquatic chemistry. For FY2017, Water Centers within the Mississippi River Basin would like to fund complimentary research on Harmful Algal Blooms, coordinating the development of a data/information base to later support a competitive regional water proposal at a larger scale. Therefore, the IWRRC hopes to fund one proposal focused on Harmful Algal Blooms, but encourages other project ideas that are beneficial to Indiana's water resources.

PROPOSAL DETAILS

For FY2017, the IWRRC is entertaining two categories of proposals:

- Single PI proposals not to exceed \$15,000; and
- Collaborative, interdisciplinary team proposals not to exceed \$30,000. These larger proposals should integrate social and physical dimensions.

Research proposals will be **competitively reviewed** using an external peer review process. The reviewers will use the following criteria in assigning a final rank:

- 1) Technical merit, proposal quality, and feasibility (60%);
- 2) Applicability to Indiana's needs (15%);
- 3) Harmful Algal Bloom focus (5%);
- 4) Involvement of graduate students in research (5%); and
- 5) Capability of the PI(s) (15%).

Highly valued projects will also include activities to disseminate information and results to the public. We anticipate funding 2-4 projects this year, depending on the level of monetary requests. Funded PIs will be asked to contribute towards a fact sheet detailing their study findings, give a presentation

IWRRC -2017

during an IWRRC sponsored webinar, and participate in the annual Indiana Water Resources Association Symposium, June 28-30, 2017 at Turkey Run State Park.

The IWRRC grant application should have a March 1, 2017 start date (see below), 12 month duration. As has been the case over our history, a non-federal match of 2:1 (non-federal to federal) is required. Indirect costs are not allowed on the federal cost category (Public Law 101-397, Water Research Institutes Authorization). However, the indirect costs may be used to provide part of the non-federal match. **The awards are administered through IWRRC and are contingent upon Congressional approval of FY2017 funds for the National Institutes for Water Research program. Note, if your proposal is funded the IWRRC expects to be acknowledged in publications and presentations of the supported work. We also require that you notify us of any publications that can be attributed to the support from IWRRC.** This year we have included a new section in the main body of the proposal (section I) related to past projects supported by the IWRRC and your accomplishments.

PROPOSAL FORMAT GUIDELINES

The proposal must contain the information outlined below (Attachment 1) which includes an executive summary, the proposal, and additional documentation. Please submit the full proposal in the order outlined in Attachment 1.

SEND TO

Title and Reviewers: Please send your project title and a list of names and email addresses for four reviewers within your field of expertise to Dr. Linda Prokopy (lprokopy@purdue.edu) by 5:00PM on Monday, November 7, 2016.

Proposal: Please send an electronic copy of the completed proposal (MS-Word document only, not in PDF format) to Dr. Linda Prokopy (lprokopy@purdue.edu) by 5:00PM on Monday, November 14, 2016. (Indicate the PI's NAME- **IWRRC 2017 proposal** in the header.) **We will respond with an email once we receive your submission.** If you do not receive a confirmation email within 24 hours of your submission, please contact Dr. Prokopy (email or phone) to let her know.

PROPOSAL and BUDGET QUESTIONS

Proposal questions may be addressed to IWRRC Director, Dr. Linda Prokopy, 765.496.2221, lprokopy@purdue.edu or Managing Director, Laura Esman, 765.496.3135, lesman@purdue.edu.

ATTACHMENT 1

Executive Summary

Items a-i must fit on no more than one page, unnumbered, with 1-inch margins all around. Do not include letters as part of heading for each section (Use 12 pt font and one inch margin and 2 pages total):

- a. Title
- b. Focus categories (see below for list)
- c. Keywords
- d. Project duration (include start and end date)
- e. Funding requested
- f. Matching funds pledge
- g. Principal Investigator(s) Name and affiliation (full contact information for the lead PI)
- h. Congressional District
- i. Abstract (300 words)
- j. Statement of critical regional or state water problem
- k. Statement of results/benefits

Main Body of Proposal

The proposal must fit on no more than 5 pages including references, figures and graphs

- a. Title. Please use the same title as above.
- b. Statement of critical regional or state water problem. Include explanation of the need for the project.
- c. Statement of results or benefits. Specify the type of information that is to be gained, and how it will be used.
- d. Nature, scope, and objectives of the project. Include a brief timeline of activities.
- e. Methods, procedures, and facilities. Provide enough information to permit evaluation of the technical adequacy of the approach to satisfy the objectives.
- f. Related research.
- g. Student training.
- h. Expected deliverables. Include information dissemination plan.
- i. If you have received IWRRRC funds in the past, how have you leveraged the projects/funds that were supported by IWRRRC and what were your accomplishments?
- j. References cited.

Additional Documents

- 1. CV of all investigators (NSF format not to exceed 2 pages/PI)
- 2. Budget Summary (attachment 3)
- 3. Budget Justification (attachment 4)
- 4. Documentation of institutional approval of the proposal.
- 5. Matching fund commitment letter signed by authorized institutional official
- 6. Names and email addresses for four reviewers within your field of expertise.

FISCAL GUIDELINES. As in years past, the proposal budgets must reflect a \$2 non-federal match for each federal dollar requested. Please contact your college pre-award details but the match may include actual contributions, in-kind contributions and overhead costs. (Indirect costs may not be charged on the *federal* funding request in this program, although the match may include the indirect costs forgiven on the federal dollars.)

ATTACHMENT 2

<u>Focus Categories</u>	<u>Abbreviations</u>
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
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

ATTACHMENT 3

BUDGET SUMMARY

Project Title:

Cost Category	Federal	Non-Federal	Total
Salaries and Wages	\$	\$	\$
- <u>Principal Investigator</u>			
- _____			
- _____			
- _____			
Total Salaries and Wages	\$	\$	\$
Fringe Benefits			
Supplies			
Equipment			
Services or Consultants			
Travel			
Other direct costs			
Total direct costs	\$	\$	\$
Indirect costs on federal share	XXX	\$	\$
Indirect costs on non-federal share	XXX	\$	\$
Total estimated costs	\$	\$	\$
Total costs at Purdue University (campus on which the IWRRC is located.)	\$	\$	\$
Total costs at other university campus Name of University:	\$	\$	\$

ATTACHMENT 4

BUDGET JUSTIFICATION

Project Title:

<p>Salaries and Wages. Provide estimated hours and the rate of compensation proposed for each individual.</p>
<p>Fringe Benefits. Provide the overall fringe benefit rate applicable to each category of employee proposed in the project.</p>
<p>Supplies. Indicate separately the amounts proposed for office, laboratory, computing, and field supplies.</p>
<p>Equipment. Identify non-expendable personal property having a useful life of more than one year and an acquisition cost of more than \$5,000/unit. If fabrication of equipment proposed, list parts and materials required for each, and show costs separately from the other items.</p>
<p>Services or Consultants. Identify specific tasks for which these services would be used. Estimate amount of time required and the hourly or daily rate.</p>
<p>Travel. Provide purpose and estimated costs for all travel including details on per diem rates an estimated cost of lodging etc. Provide as much detail as possible: number of trips, rates etc.</p>
<p>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).</p>
<p>Indirect Costs. Provide negotiated indirect ("Facilities and Administration") cost rate.</p>