

## ***FY20 USGS 104B Proposal Instructions***

### **PROGRAM OBJECTIVES**

Section 104(b) of the Water Resources Research Act of 1984 requires the Institutes or Centers to:

- (1) "plan, conduct, or otherwise arrange for competent applied and peer reviewed research that fosters –
  - (A) improvements in water supply reliability;
  - (B) the exploration of new ideas that –
    - (i) address water problems; or
    - (ii) expand understanding of water and water-related phenomena;
  - (C) the entry of new research scientists, engineers, and technicians into water resources fields; and
  - (D) the dissemination of research results to water managers and the public.
- (2) "cooperate closely with other colleges and universities in the State that have demonstrated capabilities for research, information dissemination, and graduate training in order to develop a statewide program designed to resolve State and regional water and related land problems." The Act also requires each institute to:
- (3) "cooperate closely with other institutes and other organizations in the region to increase the effectiveness of the institutes and for the purpose of promoting regional coordination."

Applications submitted under this Announcement are to be in furtherance of these objectives.

### **ELIGIBLE APPLICANTS**

Applications will be accepted only from Institutes or Centers established pursuant to the provisions of Section 104 of the Water Resources Research Act of 1984, as amended. The applicant may consider project proposals only from faculty members or affiliates at institutions of higher education in its State.

### **APPLICATIONS NOT ELIGIBLE FOR FUNDING**

- A. Applications for research on health effects involving human subjects.
- B. Applications for research involving oceanography (estuarine research applications are acceptable).
- C. Applications submitted by an Institute or Center that has not met reporting requirements on a previous award by the USGS.

### **FEDERAL FUNDS**

Funds have not yet been appropriated for this program for FY 2020. The Government's obligation under this program is contingent upon the availability of appropriated funds. Assume that a total of \$85,000 is available for FY20 for the Nevada program.

### **MATCHING FUNDS**

- A. Each applicant must match each Federal dollar provided with not less than two dollars from non-federal sources.

- B. Matching funds shall be obligated during the period of performance.
- C. Matching funds may contain indirect costs and non-federal salaries and benefits. The applicant's negotiated indirect cost rate may be applied to **both** qualifying federal and non-federal direct costs, and the result used to satisfy part of the matching requirement under the non-federal share. The ICR shall not be applied to tuition and equipment costs. **Federal funds shall not be used to pay indirect costs.**

#### **APPLICATION DUE DATE**

Applications must be submitted via e-mail to Suzanne.Hudson@dri.edu by 4 p.m., Friday, December 6, 2019.

#### **APPLICATION CONTENTS – IMPORTANT TO FOLLOW GUIDANCE ON FILE TYPE AND CONTENT**

The package should consist of **FIVE** parts:

- 1) the **body** of the e-mail,
- 2) **one Word file** that contains the **abstract**
- 3) **one Word file** that includes the **narrative and resumes**,
- 4) **detailed budget** and
- 5) **detailed budget justification**. Please provide enough detail in the budget to ascertain the reasonableness of the requested budget.

*\*1\* body of e-mail:*

**Title:** Concise but descriptive.

**Project Type:** Choose from the following: Research, Information Transfer, Information Management System, Education, or Other (please specify).

**Focus Categories:** Choose a maximum of three focus categories from the list provided (*Attachment A*), with the most preferred focus category first.

**Research Category:** Choose from the following the one category that most closely applies: Social Sciences, Ground-water Flow and Transport, Water Quality, Biological Sciences, Engineering, or Climate and Hydrologic Processes.

**Keywords:** Enter keywords of your choice descriptive of the work.

**Start Date:** Enter the actual beginning date for the project.

**End Date:** Enter the estimated end date for the project.

**Principal investigator(s):** Provide name, academic rank, university, email address and phone number of the principal investigators.

**Congressional District** of where the work is to be conducted.

*Attachments to e-mail (total of 4):*

**\*2\* Abstract.** Provide a brief (one-page or less) description of the problem, methods, and objectives. **(Word file)**

**\*3\*** The *narrative* submitted should be in Word format, 12 pt. font not to exceed 10 single-spaced pages (exclusive of resumes). Please include the following in one file **(Word file):**

- a. **Statement of regional or State water problem.** Include an explanation of the need for the project, who wants it, and why.
- b. **Statement of results or benefits.** Specify the type of information that is to be gained and how it will be used.
- c. **Nature, scope, and objectives of the project, including a timeline of activities.**
- d. **Methods, procedures, and facilities.** Provide enough information to permit evaluation of the technical adequacy of the approach to satisfy the objectives.
- e. **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.
- f. **Training potential.** Estimate the number of graduate and undergraduate students, by degree level, as well as Post Docs who are expected to receive training during the project.
- g. **Investigator's qualifications.** Include resume(s) of the principal investigator(s). No resume shall exceed two pages or list more than 15 pertinent publications. (Resumes do not count toward the 10 page limit)

**\*4\*** The *budget* should include the following categories for both federal and match:

**Salaries and Wages:** Include estimated hours/months and rate of compensation for each individual.

**Fringe Benefits:** Provide overall fringe benefit rate applicable to each category of employee proposed in the project.

**Supplies:** Indicate separately the amounts proposed for office, lab, computing and field supplies. Also include what proposed amounts are based upon (i.e. quote, historic data, etc.)

**Equipment:** Identify non-expendable personal property having a useful life of more than one (1) year and an acquisition cost of more than \$5,000 per unit. Include quotes for all equipment requested.

**Services or consultants:** Identify specific tasks for which these services, consultants, or subcontracts would be used. Provide detail and quotes for all anticipated consultants and/or services.

**Travel:** Provide purpose, location, duration and estimated costs, based upon Federal Travel Regulations (FTRs) for all travel. Details are important.

**Other Direct Costs:** Itemize costs not included elsewhere, including publication costs.

**Indirect Costs:** Provide negotiated indirect cost rate for purposes of calculating indirect cost forgiven to be used as match.

**\*5\* *Detailed Budget Justification*** (Word document)

Please note that once the proposals are submitted to me via e-mail, they will be reviewed and scored in order to determine whether or not they will be included in the Nevada proposal submitted in January. Web-based filing will be done by Suzanne Hudson.

***Questions? Contact Suzanne Hudson at 702-862-5464 or [suzanne.hudson@dri.edu](mailto:suzanne.hudson@dri.edu).***

*Attachment A*

*Focus Categories*

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