

**Opportunity Title:** Groundwater and Surface Water Hyrdodynamics Research

Opportunity

**Opportunity Reference Code:** ERDC-ITL-2019-0001

**Organization** U.S. Department of Defense (DOD)

**Reference Code** ERDC-ITL-2019-0001

**How to Apply** Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records -[Click here for detailed information about acceptable transcripts](#)
- References

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to [usace@orise.orau.gov](mailto:usace@orise.orau.gov). Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

**Description** The U.S. Army Engineer Research and Development Center's Information Technology Laboratory (ITL), located in Austin, Texas, provides experimental and computational expertise for solving water resource problems worldwide. Our research and development addresses water resource challenges in groundwater, watersheds, rivers, reservoirs, lakes, estuaries, harbors, coastal inlets and wetlands. Research programs range from design guidance to numerical models.

The intern will participate in the design, development, and evaluation of numerical models designed to simulate subsurface and free-surface flows. The participant will gain experience with hydrologic and hydrodynamic models developed in the Coastal Hydraulics Laboratory and contribute to open-source projects.

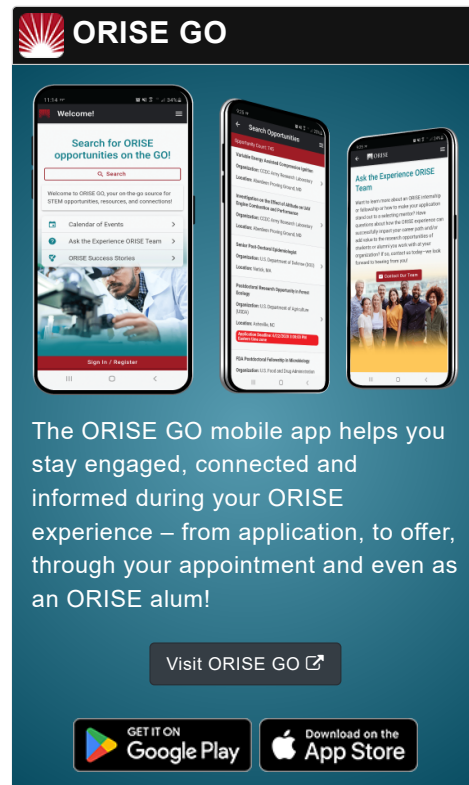
#### Appointment Length

This ORISE appointment is for a 12 month period. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

**Desired Start Date:** 9/30/19


#### Participant Benefits

Participants will receive a stipend to be determined by ERDC-ITL. Stipends are typically based on the participant's academic

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standing, discipline, experience, and research facility location.

Other benefits may include the following:








- Health Insurance Supplement. *Participants are eligible to purchase health insurance through ORISE.*
- Relocation Allowance
- Training and Travel Allowance

#### **Nature of Appointment**

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

**Qualifications** The candidate should have a strong background in the mathematical and computational aspects of modeling subsurface and surface flows. Expertise in C, high performance computing, finite element methods and general algorithm design is preferred.

**Eligibility Requirements**

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Computer, Information, and Data Sciences** (16 )
  - **Earth and Geosciences** (21 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (14 )
  - **Life Health and Medical Sciences** (45 )
  - **Mathematics and Statistics** (10 )
- **Age:** Must be 18 years of age