Opportunity Title: Marine Aquaculture and Experimentation
Opportunity Reference Code: EPA-ORD-NHEERL-AED-2019-02

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-ORD-NHEERL-AED-2019-02

How to Apply A complete application consists of:

- An application
- Transcripts – Click here for detailed information about acceptable transcripts
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- One educational or professional recommendation. Your application will be considered incomplete, and will not be reviewed until one recommendation is submitted.

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

If you have questions, send an email to EPArpp@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline 6/27/2019 3:00:00 PM Eastern Time Zone

Description ***Applications will be reviewed on a rolling-basis.**

A research opportunity is available at the U.S. Environmental Protection Agency (EPA) National Health and Environmental Effects Research Laboratory (NHEERL) in the Office of Research and Development (ORD). This appointment will be located within the Atlantic Ecology Division (AED) in Narragansett, RI.

This research project develops and applies standard and novel approaches that integrate biological, physiological and molecular information from living organisms to predict the ecological risks to marine and aquatic resources of human-mediated stressors. The research participant will be involved in the implementation of current and advancing knowledge to maintain, culture and monitor aquatic organisms under a variety of environmental conditions. Under the guidance of the mentor, the research participant will have the opportunity to be involved in field and laboratory studies that generate data to advance our understanding of how stressors, including toxic chemicals, affect the fitness of individual organisms and their populations in the aquatic and marine environment. The research participant will learn the proper techniques for collecting, maintaining and culturing the full life cycle (early-through-adult life stages) of multiple marine and aquatic species. The research participant will also have the opportunity to receive training in standard and novel testing procedures to assess the effects of stressors on organisms; fitness endpoints include body/organ size measured using analytical imaging, physiological status measured using heart rate and movement analysis, and will require tissue preparation for chemical and genomic endpoints. The research participant will have the opportunity to collaborate with teams of scientists from EPA and collaborating academic organizations who are trained in biology, ecology, chemistry, toxicology, genetics and fisheries science. In addition to these relationships, networking opportunities will be provided through participation in local scientific meetings.

This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and EPA. The initial appointment is for one year, but may be renewed upon recommendation of EPA and is contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at EPA in the Narragansett, Rhode Island, area. Participants do not become employees

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of EPA, DOE or the program administrator, and there are no employment-related benefits.

Qualifications

The qualified candidate should have received a bachelor's or master's degree in biology, ecology, fisheries or environmental sciences, or complete the degree by the start date of the appointment. Degree must have been received within five years of the appointment start date.

Skills related to collecting, maintaining and testing aquatic organisms using measurement techniques associated with ecology, chemistry, toxicology, genetics and fisheries science is preferred.

Eligibility Requirements

- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 6/1/2019 12:00:00 AM.
- **Academic Level(s):** Graduate Students, Post-Bachelor's, Post-Master's, or Undergraduate Students.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (1 👁)
  - **Environmental and Marine Sciences** (8 👁)
  - **Life Health and Medical Sciences** (12 👁)