Opportunity Title: Marine Aquaculture and Experimentation
Opportunity Reference Code: EPA-ORD-NHEERL-AED-2018-06

Organization U.S. Environmental Protection Agency (EPA)

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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
- Two educational or professional references

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.

Description 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. Additional activities may include the conducting of 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 be trained in collecting, maintaining and culturing the full life cycle (early-through-adult life stages) of multiple marine and aquatic species. The research participant will also be trained 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 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 collaborations, 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 in the Narragansett, Rhode Island area. Participants do not become employees of EPA, DOE or the program administrator, and there

are no employment-related benefits.

The mentor for this project is Diane Nacci (nacci.diane@epa.gov). The anticipated start date of the appointment is September 24, 2018.

Qualifications

Applicant will have received an undergraduate degree (BS/BA) in biology, ecology, fisheries or environmental within five years of the desired starting date, or completion of all requirements for the degree should be expected prior to the starting date.

Experience collecting, maintaining and testing aquatic organisms using measurement techniques associated with ecology, chemistry, toxicology, genetics and fisheries science are preferred.

Eligibility Requirements

- **Degree:** Bachelor's Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (2)
  - **Earth and Geosciences** (1)
  - **Environmental and Marine Sciences** (11)
  - **Life Health and Medical Sciences** (15)