# PERFORMANCE WORK STATEMENT

**Task Order Title: CEMM Support**

**Task Order Solicitation # 7**

**PWS Title: Harmful Algal Bloom Monitoring and Forecasting**

**PWS #:**

1. **Summary**

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| --- | --- |
| **EPA Organization** | ORD/CEMM/ACESD |
| **Location** | Narragansett, RI |
| **Required Level of Education** | Bachelor’s Degree |
| **Average Hours Per Week** | 40 |
| **Number of Students Sought** | 1 |

1. **Agency & Office Mission**

The Office of Research and Development at the EPA supports high-quality research to improve the scientific basis for decisions on national environmental issues and help EPA achieve its environmental goals. Research is conducted in a broad range of environmental areas by scientists in EPA laboratories and at universities across the country.

Within ORD, the Center for Environmental Measurement & Modeling (CEMM) conducts research to advance EPA’s ability to measure and model contaminants in the environment, including research to provide fundamental methods and models needed to implement environmental statutes. The methods and models developed by CEMM are typically applied at the airshed, watershed and ecosystem level. Within CEMM, the Atlantic Coastal Environmental Sciences Division (ACESD) conducts research to advance EPA’s ability to characterize the XXX.

# Description of Student Services

The student shall conduct field and laboratory work, generate and organize field and laboratory data, perform data management and data analysis, perform literature reviews, and interface with experts in the respective technical specialties for the Spatial and temporal dynamics of freshwater cyanobacterial HABs and Survey of Reservoir Greenhouse Gas Emissions (SuRGE) projects. Resulting data shall be entered into project datasets and reports generated. Data generation shall also include performing literature searches for scientific journals and entering these journal articles into an bibliographic database. The student shall maintain careful and accurate records in designated laboratory or field notebooks. These notebooks and all other data produced under this order will be the property of the Environmental Protection Agency.

Field work and data generation shall include:

* + Travel to and from field locations with federal staff
  + Preparation/clean up of field equipment for water quality and greenhouse gas sampling
  + Sample collection
  + Recording data
  + Other field tasks as needed

Laboratory work and data generation shall include:

* + Methods development and analyses …
  + Performing …
  + Preparation of analytical calibration and quality control standards
  + Conducting descriptive statistical analyses and exploratory data analys (i.e., summary statistics, correlation/regression, hypothesis testing, data visualization, etc)
  + Refinement of standard operating procedures
  + Data generation will also include performing literature searches for scientific journal articles and entering these journal articles into a bibliographic database, managing data or other information and entering data into datasets using a variety of software (e.g., Microsoft Excel/Word/Access, R, RStudio, etc.).
  + Resulting data will be entered into laboratory databases and reports generated
  + Using general laboratory skills and keeping laboratory notebooks.

# Required Knowledge, Skills, Work Experience, and Education

The student shall have:

* + A Bachelor’s degree in in an environmentally related discipline such as chemistry, environmental science, biochemistry, biology, or ecology.
  + General skills/experience in laboratory work
  + Experience with data entry and descriptive statistical analyses (i.e., mean, standard deviation, minimum, maximum, median, etc) using Excel, R, or other statistical software
  + Strong written, oral and electronic communication skills
  + Basic safety requirements in the laboratory and field (additional safety training will be provided).

# Description of Working Conditions

Work shall be performed at the following location:

U.S Environmental Protection Agency

Atlantic Coastal Environmental Sciences Division

27 Tarzwell Drive

Narragansett, RI

Additional work will be required at various field locations throughout the Northeastern United States. These will occasionally require overnight stays but are usually day trips.

The student shall be supervised by a mentor who will provide day-to-day direction and review the student contractor’s work. The mentor for this position will be a federal EPA employee. The COR will inform the contractor of specific mentor information at the time of award.

# Travel

Occasional travel to field locations is required, with some requiring overnight stays. All sights are within the Northeastern US.

# Duration

The period of performance shall be from the start date through 10 May 2023, plus four (4) additional 12- month option periods.

# Use of Government Vehicles

The student will occasionally ride in Government Vehicles operated by federal employees.