

**OLEM SUMMER INTERN PROGRAM
PROJECT DESCRIPTIONS FORMAT -- 2017**

Name of Point of Contact/Supervisor and Phone Number:

Dana Jones

OSRTI.Internships@epa.gov

Name of Office/Division/Branch and Location of Assignment:

Environmental Response Team

Technology Innovation and Field Services Division

Office of Superfund Remediation and Technology Innovation

Environmental Response Team

Edison, New Jersey

Describe Program (Mission/Objectives):

ERT's Air Monitoring and Sampling (Viper Data Management/Snapper Air Sampling Platform) Project

Background of Project Area:

This project will be made available to those who would like to help EPA's Environmental Response Team improve upon their air monitoring and sampling capabilities. He/She will be tasked with helping ERT Members and contractor personnel on developing new technologies for the Viper Data Management System as well as the Snapper Air Sampling Platform. He/She will work on developing these new technologies as well as writing Standard Operating Procedures for these methodologies to be used on Superfund sites and emergency responses across EPA.

Define Project (s), Objectives (s) and Tasks/Assignments:

Objectives: Help develop new technologies to be used on the Viper Data Management System and Snapper Air Sampling Platform

Task (s): Develop Standard Operating Procedures for EPA personnel to use these technologies in the field

Identify Prerequisite Skills:

Science, Environmental Science, Engineering, and/or Environmental Engineering background preferred.
Interest in air sampling/monitoring desired

Describe any other requirements, such as travel or training.

24 On-line Health and Safety Training to be completed upon hiring for the ability to visit Superfund/Hazardous Materials/Emergency Response sites.

Local travel to sites will be permitted

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Name of Office/Division/Branch and Location of Assignment:

Science Policy Branch

Assessment and Remediation Division

Office of Superfund Remediation and Technology Innovation

Environmental Protection Agency

Potomac Yard

2777 Crystal Drive

Arlington, Virginia 22202

Describe Program (Mission/Objectives):

Asbestos Methods Comparison

Background of Project Area:

Technical Review Workgroup (TRW)-Asbestos Committee collaborated with the Office of Research and Development and their STREAMS contractor RTI to undertake a comparison of air analysis methods for Asbestos. The draft report did not provide the supporting data and left questions about the conclusions. The STREAMS task orders are closed. TRW obtained the supporting data, which is in process of further evaluation to re-visit the conclusions and finalize the report.

Define Project (s), Objectives (s) and Tasks/Assignments:

Objectives: Finalize Asbestos Methods Comparison study report.

Task (s):

Task(s)/assignment(s) – Assist TRW in entering data to the National Asbestos Data Entry Spreadsheet (NADES) to obtain sample level results for air analysis. Assist TRW in using sample level data to confirm or revise outlier data sets. Since there are quality control concerns about the data, outlier assessment will include non-statistical methods. If different outliers from the draft report, revise statistical comparisons of the methods. In conjunction with TRW, finalize the report. Authorship of the final report will require further discussion to ensure attribution to earlier contributors

Identify Prerequisite Skills:

Basic Computer Skills - Spreadsheets, Databases

Basic Statistical Comparison

Written and Oral Communication

Describe any other requirements, such as travel or training.

No. Training beyond initial kick-off discussion should not be needed. Travel should not be needed

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Name of Office/Division/Branch and Location of Assignment:

Technology Integration and Innovation Branch

Technology Innovation and Field Services Division

Office of Superfund Remediation and Technology Innovation

Environmental Protection Agency

Potomac Yard

2777 Crystal Drive

Arlington, Virginia 22202

Describe Program (Mission/Objectives):

National Optimization Database Support

Background of Project Area:

For more than a decade, OSRTI has provided technical support to Regional offices through the use of third-party optimization reviews/evaluations. The *National Strategy to Expand Superfund Optimization Practices from Site Assessment to Site Completion* defines optimization as: "Efforts at any phase of the removal or remedial response to identify and implement specific actions that improve the effectiveness and cost-efficiency of that phase. Such actions may also improve the remedy's protectiveness and long-term implementation which may facilitate progress towards site completion. To identify these opportunities, regions may use a systematic site review by a team of independent technical experts, apply techniques or principles from Green Remediation or Triad, or apply other approaches to identify opportunities for greater efficiency and effectiveness." More background information on the optimization program can be found at <https://www.epa.gov/superfund/cleanup-optimization-superfund-sites>. OSRTI has conducted more than 150 optimization studies for Superfund and other EPA programs nationwide.

All optimization review information and recommendation tracking have been input into a series of MS Excel spreadsheets and are presently maintained by an OSRTI contractor. After more than a decade of data input, these spreadsheets have become very large and unwieldy. It has been decided that a MS Access database would be easier to manage and query for information. The scope of work for this internship would be to design and develop an MS Access database, transfer all optimization project information into it, and design queries that can extract needed data on a periodic basis. The intern may also be tasked to design and develop MS Access web-based applications to allow remote querying of the database

Define Project (s), Objectives (s) and Tasks/Assignments:

Objectives: The design and development of a database or a group of databases using MS Office Access applications

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Task (s):

The Intern will design and develop a database(s) using MS Office Access applications. The database(s) will be based on a number of existing Excel spreadsheets that contain extensive information on every optimization review project. The database(s) will contain tables that store information on each project and the specialist will design ways in which that information will be presented, distributed, and accessed.

The intern will help to decide which information to include in the database tables, how the tables will interact with each other, and will create the queries that will enable users to access the information.

If possible, the intern will design the database(s) to either be published to SharePoint or accessible through a web-based application, which would enable multiple users to interact with the database from any Agency standards-compliant web browser.

Identify Prerequisite Skills:

Proven experience utilizing advanced features within MS Access

Strong analytical, problem solving, and decision making skills

Ability to work with others to gather requirements and interpret these requirements into technical specifications/database design

The primary tools used will be Microsoft Word / Excel / Access

Describe any other requirements, such as travel or training.

If yes, please provide specifics.

No.