

## Internship Job Advertisement

SOARS is dedicated to broadening participation in the atmospheric and related sciences.

SOARS is an undergraduate to graduate program built around a summer research internship, mentoring by top scientists and engineers, and a supportive learning community. In addition to the summer internship, SOARS includes year-round support, funding to attend conferences and last-dollar tuition scholarships. Successful proteges are eligible to participate in the program for up to four years.

### Selection Considerations

SOARS encourages applications from individuals who are members of a group that is historically under-represented in the atmospheric and related sciences, including students who are Black or African American, American Indian or Alaska Native, and Hispanic or Latino, female, first generation college students, veterans and students with disabilities. SOARS welcomes lesbian, gay, bisexual, and transgender students; students who have experienced, and worked to overcome, educational or economic disadvantage and/or have personal or family circumstances that may complicate their continued progress in research careers.

### A successful candidate should

- Have completed the equivalent of two years of college
- Have at least one semester of undergraduate studies remaining after the initial summer program (graduating seniors are not eligible to apply)
- Ideally have a cumulative GPA of 3.0 or higher; if your GPA is less than this, please address the circumstances in your essay
- Have a major in atmospheric science or a related field such as the geosciences, chemistry, computer science, earth science, engineering, environmental science, mathematics, meteorology, oceanography, physics, or social science; and a plan to pursue a career in atmospheric or a related science
- Have U.S.-citizen or permanent-resident status
- Be comfortable with all internship requirements.

### Your submission needs:

1. A resume
2. Two letters of recommendation
3. Unofficial Transcripts
4. Two essay questions, each with a limit of 500 words. These are:

1. **Academic Statement of Purpose:** A statement outlining your career goals and how participating in SOARS will help you meet these goals.

2. **SOARS Mission and Personal Journey:** SOARS is dedicated to enhancing the diversity of future scientific communities and sharing our science with a broader audience. Please describe how you, based on your personal background and life experiences (including social, cultural, familial, educational, or other opportunities or challenges) will contribute to this mission during and after participation in SOARS.

## Graduate School Advertisement

The Department of Earth and Environmental Science and the Center for Energy Research at the University of Pennsylvania seek graduate students interested in any of the following research areas: geomicrobiology, ecology, microbe-microbe and microbe-mineral interactions, biogeochemistry, ecophysiology and bioenergetics.

Potential projects include:

- Microbial remediation of asbestos: This project provides the opportunity to interrogate microbe-mineral interactions in human-disposed minerals.
- Bioenergetic principles of energy metabolisms: This project will focus on the ecophysiology of hydrogenotrophic methanogenesis and/or Fe(III) reduction from marine geothermal environments.
- Taxonomic classification: Isolation and characterization of novel chemosynthetic microorganisms from anoxic environments.

The prospective students will be expected to work at the interface between geology, chemistry, and biology.

**SKILLS ASSOCIATED WITH THIS RESEARCH PROGRAM:** Problem-solving (scientific method) skills, preparation of chemical solutions, microbial culturing, microscopy, molecular phylogenetics, aqueous/gas chemistry quantification, experimental design skills, data-logging, broad scientific literacy and cultural competence.

The successful applicants will be awarded a Ph.D. Fellowship package that includes: tuition, fees, health care and stipend for living expenses.

## Entry-Level Job Advertisement

Earth Day is every day at EPA! At EPA, you can protect human health and the environment of all Americans, and you'll discover that EPA is one great place to work! We offer great benefits and work flexibilities, and our diverse workforce connects to more than just a career--we share a common passion to promote a cleaner, healthier environment. Discover how exciting safeguarding our natural resources and protecting human health can be. Find yourself at EPA.

### Duties

At the entry level of this position, you will:

- Serve as a technical expert in the field of contaminated sediments and ecological risk assessment for environmental programs. Administer and resolve complex program and project issues requiring an understanding of unusual problems associated with environmental/ecological risk assessment and its application in environmental risk management decision making.
- Develop and implement novel and advanced scientific approaches in the areas of environmental risk assessment, extent of contamination, degree of cleanup necessary and restoration requirements at uncontrolled hazardous waste sites and environmental emergencies often, but not exclusively, for contaminated sediments and wetlands sites.
- Serve as a technical expert on ecological risk assessment with special emphasis on contaminated sediments with primary responsibility for review, analysis and coordination of techniques to assess the nature and extent of ecological toxicity resulting from discharges of hazardous waste from Superfund sites.
- Evaluate cleanup and removal/remedial activities and analyze subsequent information to ensure that effective restoration activities are carried out when and where necessary. Serve as a member of ERT and will rapidly respond to environmental emergencies and uncontrolled hazardous waste sites. Incumbent may also serve as a project team leader using a facilitative style of leadership in a collaborative environment.
- Interpret results of environmental investigations and prepare complete reports of each study, including discussions of new approaches, techniques or technology used. Draw conclusions after considering validity and reliability of results, including the value of the study to overall National program needs.
- Review published and unpublished literature and research documents to identify new approaches and procedures applicable to multi-media environmental assessment, cleanup and restoration techniques employed at sites where hazardous materials may have been released, or during environmental emergencies.

### Qualifications

1. Ability to analyze and critically review environmental data and/or reports on risk assessment science, ecological toxicology, contaminated sediments and issues pertaining to contaminated sediments, and to evaluate sediments data for use in risk assessment and site management.
2. Ability to lead or work within cooperative teams charged with developing and completing project plans and delivering results on schedule.
3. Ability to analyze and interpret environmental data for use in ecological or human health risk assessment.
4. Ability to convey, orally and in writing, expert advice on environmental data collection and management and the results of environmental studies and to explain complex concepts to technical and non-technical clients and audiences.

## Entry-Level Job Advertisement

**We are currently seeking a full-time Environmental Scientist or Geologist to work on various projects based out of our New Jersey office.**

The essential functions of this position will include traveling to various job sites and utilizing necessary field equipment to complete soil and groundwater sampling, site investigations, remediation investigations, environmental site assessments, receptor evaluations, and related remediation tasks. Essential functions also include the preparation of detailed, concise, and accurate field reports, communicating with project managers, contractors, client representatives and colleagues, performing research, communicating required information for and assisting with various analyses of data using various software, as well as all other duties as assigned.

### **Candidates must possess the following qualifications:**

- 0-4 years of related experience; MODFLOW, SESOIL, and/or AT123D modelling experience is a plus;
- BS Degree or equivalent in Geology, Environmental Science, Environmental Engineering, or similar;
- Must have excellent written and oral communication skills, as well as strong interpersonal skills and the ability to represent the Company in a professional manner;
- Must have strong organizational skills;
- Functional computer skills, including familiarity with Microsoft Outlook, Word and Excel, as well as ability to utilize various software programs, time reporting systems, and other related computer applications;
- Requires a valid, acceptable driver's license and personal vehicle to travel to project sites, as regular daily travel is required.

### **Physical Requirements:**

While performing the essential functions of this position, the employee is frequently required to assume a stationary position, handle, inspect, and/or feel documents, materials and/or equipment relevant to the job and communicate about same. The employee is also regularly required to move around on the job-site, including ascending or descending on the landscape or on a ladder, and positioning themselves appropriately to access necessary testing materials and equipment, frequently for prolonged periods of time. The employee must regularly lift and/or move up to 50 lbs. In accordance with the level of visual detail required for this position, close vision, depth perception, and the ability to adjust focus are required for this position. The employee will also communicate with colleagues, supervisors and clients by using the Corporate and client e-mail and telephone systems. The employee must also occasionally operate a computer, as well as other related office machinery, such as calculators, printers, and fax machines. This position also requires the regular operation of a motor-vehicle, which may require remaining stationary for extended periods of time.

The physical demands described above are representative of those that must be met by an employee to successfully perform essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.