

Opportunity Title: Environmental Exposure Research Associate at EPA

Opportunity Reference Code: EPA-SSP-0010-9R-4-16-18

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-SSP-0010-9R-4-16-18

How to Apply Submit application and supporting documents by clicking on Apply Now button.

For more information, contact EPAjobs@orau.org. Do not contact EPA directly.

Description The EPA Environmental Research and Business Support Program has an immediate opening for an Environmental Exposure Research Associate with the Office of Research and Development at the EPA's Research Triangle facility in Raleigh-Durham, NC.

EPA's National Exposure Research Laboratory (NERL) protects human health and the environment by developing and applying innovations in exposure science. NERL provides scientific leadership, understanding, and tools necessary to quantify exposure for humans and ecosystems. NERL's Systems Exposure Division (SED) integrates exposure data, tools, methods and models to assess cumulative exposures to humans and ecosystems. This assessment uses systems-based approaches to organize current knowledge, simulate potential futures and synthesize results. SED translates information into decision-making frameworks that integrate human and ecological, multimedia, socio-economic and cumulative risk considerations to improve human well-being and the sustainability of the built and natural environment. The holistic view on exposure science and its linkage to sustainable solutions emphasizes cross-divisional and laboratory integration.

The selected candidate shall support the review of information related to sampling and analysis of respirable elongated mineral particles (REMP) as these technologies apply to the measurement and modeling of asbestos in the Iron Range of Minnesota. The review will include data and information to support a gap analysis between REMPs found or potentially present in numerous settings.

Research Duties include but are not limited to:


- Comparisons of environmental REMP concentrations to on-site worker exposure data from the University of Minnesota, School of Public Health studies.
- Selection criteria for representative sampling locations.
- Comparison of various sampling protocols, including fixed site, personal monitors, and combinations of these sited in down-wind, environmental, as well as within communities (to support future measurements and modeling of residential exposures).
- Discovery of similar or applicable studies that have evaluated occupational, outdoor vs. non- occupational outdoor exposures.
- Review of current and cutting-edge technologies for measuring personal exposure to REMPs in real-time.
- Information to support other recommendations for further study.



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If the information gathering and reduction stage is successful, the selected candidate shall assist in setting up and operating monitoring sites in various environmental and community settings.

Communications-related responsibilities will include:

- Participating as a member of a multi-disciplinary research team of EPA Regional and ORD scientists,
- Interacting with other members of the REMP sampling and analysis team as well as with other EPA scientists,
- Adhering to the RARE Communications Plan,
- Documenting findings in word processing, spreadsheet and graphical files, and
- Possibly presenting work performed as a poster at a scientific conference and/or Regional/ORD briefings.

Location: This job will be located at EPA's Research Triangle facility in Raleigh-Durham, NC.

Salary: The selected applicant will become a full time temporary employee of ORAU and will receive an hourly wage of \$21.27 for hours worked.

Hours: Full Time.

Travel: Occasional overnight travel may be required, especially if first phase is completed successfully.

Working Conditions: This position will involve work in an administrative setting and is not expected to involve exposure to hazardous elements.

The selected candidate shall be supervised by a mentor who will provide day-to-day direction, as well as coach, advise and counsel the selected candidate, and review his/her work.

Expected Start Date: The position start date is May 2018. The selected applicant will be a temporary employee of ORAU working as a contractor to EPA. The initial contract period is through May 14, 2019. EPA may elect to renew the contract for an additional 12-month optional period.

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Qualifications Eligible applicants must:

- Be at least 18 years of age and
- Have earned at least a Bachelor's degree in environmental science or engineering, occupational hygiene, or other closely related field from an accredited university or college within the last 24 months and
- Be a citizen of the United States of America or a Legal Permanent Resident.

EPA ORD employees, their spouses, and children are not eligible to participate in this program.

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Required Knowledge, Skills, Work Experience, and Education




Successful candidates shall have:

- Proficiency in conducting a technical literature review within a prescribed timeline, and
- Experience applying knowledge of physical sciences to generate a report.

Desirable Knowledge, Skills, Work Experience, and Education

It is desirable for the candidates to have:

- Experience in air pollution and environmental sampling and analysis.

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| Eligibility Requirements | <ul style="list-style-type: none">• Citizenship: LPR or U.S. Citizen• Degree: Bachelor's Degree or Master's Degree received within the last 24 month(s).• Discipline(s):<ul style="list-style-type: none">◦ Engineering (27 )◦ Environmental and Marine Sciences (13 )◦ Life Health and Medical Sciences (45 ) |
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| Affirmation | <ul style="list-style-type: none">• I certify that I am at least 18 years of age; have earned at least a Bachelor's degree in environmental science or engineering, occupational hygiene, or other closely related field from an accredited university or college within the last 24 months; a citizen or a Legal Permanent Resident of the United States of America; and not a current employee of EPA ORD or the spouse or child of an EPA ORD employee. |
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