

Opportunity Title: Exposure Scientist or Engineer/Inhalation Toxicologist - All Academic Levels
Opportunity Reference Code: NAMRU-Dayton-2022-0002

Organization U.S. Department of Defense (DOD)

Reference Code NAMRU-Dayton-2022-0002

How to Apply Click on *APPLY* now to start your application.

Description Naval Medical Research Unit Dayton conducts research on environmental health effects and aerospace medicine, addressing health and performance challenges faced by service members in operational military environments.

What will I be doing?

The Environmental Health Effects Laboratory at the Naval Medical Research Unit-Dayton is looking for up and coming engineers, toxicologists, chemists and researchers at all levels in their STEM education (students and post-graduates) to contribute to research projects that focus on determining the potential health effects of exposures to different environmental hazards and stressors that Service Members may encounter during military operations.

Under the guidance of a mentor, you will have the opportunity to train, learn and grow in a multi-disciplinary science environment. Opportunities include supporting designing, constructing and operating inhalation toxicology and physiological stressor exposure systems. With appropriate mentorship and benefiting from a team environment, you will be expected to increase responsibilities and independence with inhalation toxicology/exposure studies, collect and analyze data, and contribute to the writing of technical reports, abstracts and manuscripts for publication in the peer-reviewed literature. This will all occur in a real-world, deadline-driven, dynamic, military research laboratory.

Ongoing and upcoming projects involve the design, construction and operation of systems to expose rat models to various chemical toxicants (e.g., pesticides, military fuels), particulate matter (e.g., diesel exhausts, air pollution), simulated cockpit environments of tactical aircraft, and physiological or physical stressors such as fatigue, temperature and noise. Opportunities exist to collect and analyze data on respiration or other toxicology endpoints, as appropriate to your career and goals.

Why should I apply?

This internship provides the opportunity to independently utilize your skills and engage with experts in innovative ideas to move the proposed research forward. There are multiple opportunities available to engage in your applied research and evaluation interests.

Where will I be located? Wright Patterson Air Force Base, Dayton, OH

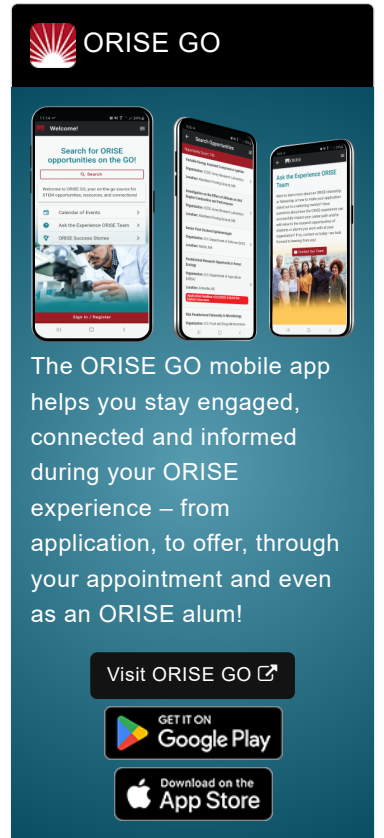
What is the anticipated start date?

NAMRU-D is ready to make an appointment immediately. Exact start date will be determined at the time of selection and in coordination with the selected candidates.

What is the length of the appointment?

Appointments could be a part-time or full-time twelve month duration. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

What are the benefits?



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You will receive a stipend to be determined by NAMRU-D. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:

- Health Insurance Supplement. Participants are eligible to purchase health insurance through ORISE.
- Relocation Allowance
- Training and Travel Allowance

Nature of Appointment

You will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, you will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

Qualifications Preferred qualifications include having recently completed a degree in a STEM field (any level - undergraduate thru Master's and Doctorate), including but not limited to Engineering, Physics, Chemistry, Toxicology, Biochemistry, Biology, and Biomedical Science. Exceptional undergraduates nearing the completion of their degree will also be considered. Mechanical aptitude and experience in a research setting is also a plus.

A complete application consists of:

- Zintellect profile
- Essay Questions - The application includes questions specific to the opportunity.
- Academic Records - For this opportunity, an official transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted.
- Current Resume/CV
- One (1) Recommendation - Applicants are required to provide contact information for at least one recommendation. You are encouraged to request a recommendation from a professional who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. Recommendation requests must be sent through the Zintellect application system. Recommenders will be asked to complete a recommendation in Zintellect. Letters of recommendation submitted via email will not be accepted.

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system. All documents must be in English or include an official English translation. If you have questions, send an email to navy@orise.orau.gov. Please list the reference code of this opportunity NAMRU-Dayton- 2022-0002 in the subject line of the email.

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Point of Contact [Richard](#)

Eligibility • **Citizenship:** U.S. Citizen Only

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- Requirements**
- **Degree:** Associate's Degree, Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([48](#) )
 - **Mathematics and Statistics** ([11](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([2](#) )
 - **Social and Behavioral Sciences** ([28](#) )
 - **Age:** Must be 18 years of age