Opportunity Title: Microbiology, Molecular Biology - Postdoctoral
Opportunity Reference Code: NAMRU-SA-2021-0001

Organization U.S. Department of Defense (DOD)

Reference Code NAMRU-SA-2021-0001

How to Apply Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records -Click here for detailed information about acceptable transcripts
- References

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.

If you have questions, send an email to navy@orise.orau.gov. Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

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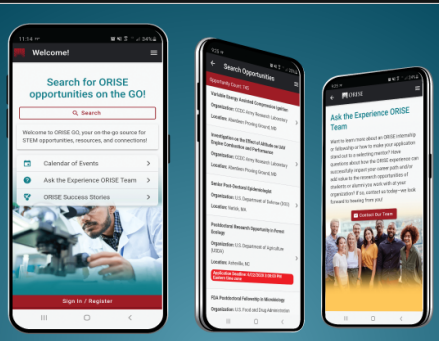

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Description Naval Medical Research Unit San Antonio (NAMRU-SA) is located on the San Antonio Military Medical Center campus, Joint Base Fort Sam Houston, Texas, and serves as one of the leading research and development laboratories of the U.S. Navy under the Department of Defense. The laboratory is one of eight subordinate research commands in the global network of laboratories operating under the Naval Medical Research Center (NMRC), Silver Spring, Maryland. NAMRU-SA's Mission is to conduct medical, craniofacial, and biomedical research, which focuses on ways to enhance the health, safety, performance, and operational readiness of Navy and Marine Corps personnel and addresses their emergent medical and oral/facial problems in routine and combat operations.

A research opportunity is available with the Naval Medical Research Unit (NAMRU), located in San Antonio, TX. NAMRU is seeking a Postdoctoral Fellow with an educational background in Molecular Biology, Microbiology, or Biochemistry. Under the guidance of a mentor, the selected candidate will participate in research that involves developing (1) Prevention Strategies for Dental Caries Using Phage Therapy and (2) Novel Diagnosis and Treatment of Envenomation by Venomous Marine Animals for Marine Expeditionary Forces.

Research activities will include:
a. Identify and help design consensus/unique amino acid

sequences of venom proteins.
b. Screen phage display library against venom peptide.
c. Conduct panning, ELISA, and venom activity assay.
d. Evaluate the various effects and efficacy of antivenom on inhibiting cellular and systemic damage induced by snake venoms.
f. Collaborate with engineers, biologists, analytical chemists, toxicologists, and veterinary science staff.
g. Initiate new hypothesis driven research and prepare technical report, manuscript, poster, abstract, and proposal.
h. Participate in key meetings with team members and collaborating organizations.

Appointment Length

This ORISE appointment is for a twelve month period. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

Participant Benefits

Participants will receive a stipend to be determined by NAMRU-SA. 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

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

- Additional information that may be included if applicable:

While participants will not enter into an employment relationship with DOD or any other agency, this opportunity will require a suitability investigation/background investigation. Any offer made is considered tentative pending favorable outcome of the investigation.

Qualifications

-Must be a U.S. citizen
-Must possess Ph.D. in cell biology, molecular biology, or microbiology
-Knowledge of molecular biology, bacteriology, proteomics, and safety procedures
-Knowledge with genetic engineering, phage biology, bacterial

growth, tissue staining, tissue culture, LEISA, RT-PCR, and immunofluorescent staining

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12)
  - **Computer, Information, and Data Sciences** (17)
  - **Earth and Geosciences** (1)
  - **Environmental and Marine Sciences** (14)
  - **Life Health and Medical Sciences** (46)
  - **Mathematics and Statistics** (10)
  - **Physics** (16)
  - **Science & Engineering-related** (1)