

Opportunity Title: Biomedical Sciences: Accelerating Translation of Biostasis
Opportunity Reference Code: DHA-JBSA-2022-0012R

Organization U.S. Department of Defense (DOD)

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How to Apply Click on *Apply* at the bottom of the opportunity to start your application.

Description The US Air Force and Defense Health Agency is offering a post-doctoral fellow interested in collaborative team-based research to develop and evaluate biostasis therapeutics in military relevant in vivo simulations of traumatic injuries.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to gain military end-user feedback on development of biostasis compounds early in the research and development cycle.

Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several areas. These include, but are not limited to:

- Design and implement research protocols; design safety procedures; adapt new procedures, methods, or instrumentation relative to research procedures.
- Gain proficiency in surgical procedures, anatomy, physiology, and operative techniques.
- Assist in the submission of IACUC protocols for the investigation and evaluation of novel Biostasis drugs in swine models of traumatic injury.
- Oversee surgical preparation, animal and equipment maintenance, and quality control analysis of reagents.
- Provided support in writing hypothesis-driven research proposals, preclinical protocols, technical reports, final reports, research grants and peer-reviewed manuscripts.
- Work collaboratively across lab functions and train other junior lab staff as needed.
- Develop new protocols and experimental methods for advanced lab equipment.
- Collect, prepare, and analyze research data with graphing software such as GraphPad Prism and Sigma Plot; keep a detailed notebook summarizing experiments and recording research data; maintain computer database of research data.

Where will I be located?

59th Medical Wing/Science & Technology office at JBSA-Lackland AFB.

What is the appointment length?




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This appointment is a twelve month research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

What are the benefits?

You will receive a stipend to be determined by DHA. Stipends are typically based on a 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*

About DHA

The [Defense Health Agency](#) (DHA) is a joint, integrated Combat Support Agency that enables the Army, Navy, and Air Force medical services to provide a medically ready force and ready medical force to Combatant Commands in both peacetime and wartime. The DHA supports the delivery of integrated, affordable, and high quality health services to Military Health System (MHS) beneficiaries and is responsible for driving greater integration of clinical and business processes across the MHS.

About ORISE

This program, administered by Oak Ridge Associated Universities (ORAU) through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and DoD. Participants do 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. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE. For more information, visit the [ORISE Research Participation Program at the U.S. Department of Defense](#).

Qualifications

Eligibility Requirements:

- A Master's or PhD in Biomedical Sciences, or a closely related discipline.

Preferred Knowledge, Skills, and Abilities:

- Have demonstrable research experience in two or more of the following areas: mammalian animal models, cellular metabolism, cellular & molecular biology, mitochondrial metabolism, and bioenergetics, neuromuscular function, histopathology, biology of aging, oxidative stress, and small

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molecule drug discovery.

- Have demonstrated professional competence and success in the form of peer-reviewed publications and presentations.
- Have bench skills including proficiency in multiplex gene and protein assays, ELISA, flow cytometry, and tissue sampling for downstream application of proteomics, metabolomics, and transcriptomics.
- Have strong organizational and problem-solving skills.
- Demonstrate a record of creativity and strong scientific productive.
- Possess strong attention to detail, analytical, time managements and interpersonal skills.
- Familiarity with graphing software such as Graphpad Prism and Sigma plot.
- Have excellent independence and communication skills.

Application Requirements





A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. [Click here for detailed information about acceptable transcripts.](#)
- Two Recommendations

If you have questions, send an email to STEM-WORKFORCE@orise.orau.gov. Please list the reference code of this opportunity DHA-JBSA-2021-0012 in the subject line of the email. Please understand that ORISE does not review applications or select applicants; selections are made by the sponsoring agency identified on this opportunity. All application materials should be submitted via the "Apply" button at the bottom of this opportunity listing. Please do not send application materials to the email address above.








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Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **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 )

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- **Engineering** (27 )
- **Environmental and Marine Sciences** (14 )
- **Life Health and Medical Sciences** (46 )
- **Mathematics and Statistics** (10 )
- **Physics** (16 )
- **Science & Engineering-related** (1 )
- **Social and Behavioral Sciences** (28 )