

Opportunity Title: Genomic Data Scientist and Software Designer

Opportunity Reference Code: USAISR-2024-0003-ES

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 U.S. Army Institute of Surgical Research is offering an Established Scientist opportunity at JBSA Fort Sam Houston, Texas.

The USAISR Genomics Research Core is dedicated to providing support for DNA and RNA sequencing and analysis. The methods utilized to quantify RNA transcripts, determine significance of differentially expressed genes, down and/or up regulate genes, and determine RNA concentration via quantitative polymerase chain reaction will be employed by the genomics core. Core lab will utilize statistical software to include but not be limited to: R Studio, Excel, GraphPad, and SAS to provide statistical support. Core laboratory will also include the service of tissue preparation, extraction of various types of RNA and/or DNA, and transcription of RNA into complimentary DNA for downstream analysis. Research will also facilitate the utilization of coding software to build programs capable of analyzing specific data sets.

What will I be doing?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to establish a standard practice for analyzing genomic data within a DoD environment.

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:

- Analyzing genomic datasets, including data preprocessing, quality control, and data visualization
- Applying current trends and advancements in genomic data science, such as single-cell sequencing and metagenomics
- Using RStudio programming software
- Gaining experience analyzing and interpreting genomic data using bioinformatics tools and software.
- Developing proficiency in common genomic data analysis techniques, such as variant calling, gene expression, and pathway analysis
- Acquiring greater knowledge of the different types of genomic data and their sources, such as DNA sequencing, gene expression, and epigenetic data

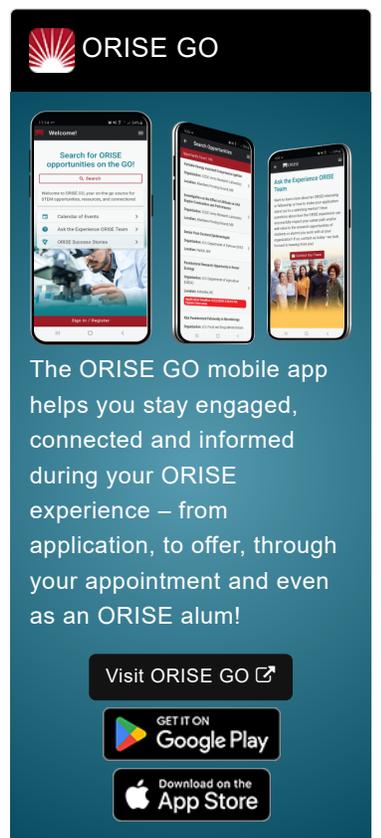
Where will I be located? San Antonio, Texas

What is the anticipated start date?

Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and fellowships will be filled as qualified candidates are identified.

What is the appointment length?

This appointment is a twelve-/month research appointment, with the possibility to be renewed for



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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 USAISR Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:

- Participants are eligible to purchase health insurance through ORISE
- Relocation Allowance
- Training and Travel Allowance

About USAISR

The U.S. Army Institute of Surgical Research is one of six research laboratories within the U.S. Army Medical Research and Materiel Command of the U.S. Army Medicine Command. The Institute is the Army's lead research laboratory for improving the care of combat casualties. The mission of the Institute is to "Optimize Combat Casualty Care".

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 The qualified candidate will hold a Doctoral degree in any of the Life Health and Medical Sciences listed in the eligibility section of the opportunity.

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 - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. [Click here for detailed information about acceptable transcripts](#).
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is/are submitted. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check

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the status of your application.

If you have questions, send an email to ARMY-MRMC@orise.orau.gov. Please list the reference code of this opportunity [USAISR-2024-0003-ES] 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:** Doctoral Degree.
 - **Discipline(s):**
 - **Life Health and Medical Sciences** ([51](#) )