Opportunity Title: Data Science & Analysis Summer Internship
Opportunity Reference Code: ERDC-ITL-2023-0010

Organization	U.S. Department of Defense (DOD)
Reference Code	ERDC-ITL-2023-0010
How to Apply	Click on *Apply* now to start your application.

Description

The DoD High Performance Computing Modernization Program (HPCMP) is a technology-led, innovation-focused program committed to delivering leading-edge high-performance computing (HPC) technology, networking, and subject matter expertise to address the Department of Defense's (DoD's) most significant challenges in R&D, T&E, and Acquisition Engineering supporting higher resolution, higher fidelity modeling and data resulting in decreased time-to-solution and, subsequently, cost by orders of magnitude.

The High Performance Computing Modernization Program (HPCMP) Resource Management (RM) team is responsible for the portal to the Information Environment (pIE), a web-based system that manages user accounts, controls HPC hour distribution, and monitors HPC usage. With the data collected in pIE, the HPCMP RM team gains valuable insights to ensure maximum usage of HPC resources by employing data analytic techniques and to gauge performance of the HPC systems, distribution of hours, and usage of HPC hours to support strategic decision-making.

Mission Impact: You will make an impact DoD scientific community by being using your skills in database design, systems analysis, data science, and statistical analysis as a part of the HPCMP Resource Management (RM) team.

What will I be doing?

You will be granted access to the portal to the Information environment (pIE) to gain understanding of the pIE data architecture in order to regularly extract data from pIE using adhoc and/or scripted queries in an attempt to understand the performance and utilizatioin of DoD HPC computing resources and share insights into user behaviors. Under the guidance of a mentor, you will also design your own scripts to consider new ways of looking at the data and keep ongoing reference documents updated with latest data on a weekly basis.

Why should I apply?

This fellowship provides the opportunity to independently utilize your skills and engage with experts in innovative ideas to move the proposed research forward.

Where will I be located? Remote or in person at Wright-Patterson AFB, Ohio
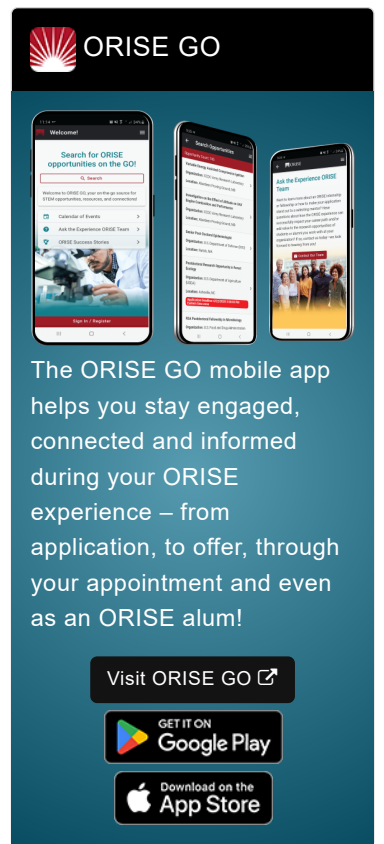
What is the anticipated start date? June 2023

Exact start dates will be determined at the time of selection and in coordination with the selected candidate.

What is the appointment length?

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

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

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](link).

Qualifications Applicants will be evaluated against the following criteria:

• Experience in Data Analysis and Decision-Making

• Problem Solving

• Project/Program Management

• U.S. citizenship required

• Have the ability to get a Secret clearance

• Currently enrolled in a bachelor or graduate degree program, with at least one semester remaining after August 2023

• Pursuing degree in Computer Science, Mathematics, Information Technology, Data Science, or related fields

• Excellent communication and interpersonal skills

• Coursework in Python, SQL, Data Analytics, with experience in Excel that will include pivot tables and macros, as well as data visualization for PowerPoint slides

Security Investigation: Applicants should be able to pass a National Agency Check and Inquiries (NACI) security investigation should they be selected and accept the internship offer.

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 official 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](link).
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is 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.

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You can always log back in to your Zintellect account and check the status of your application.

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

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements	**Citizenship:** U.S. Citizen Only **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or currently pursuing. **Overall GPA:** 3.00 **Discipline(s):** **Computer, Information, and Data Sciences** (17 👁) **Engineering** (27 👁) **Mathematics and Statistics** (11 👁) **Physics** (16 👁) **Age:** Must be 18 years of age **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).