Opportunity Title: Fellowship in Water Security
Opportunity Reference Code: NGA-2022-0005

Organization	U.S. Department of Defense (DOD)
Reference Code	NGA-2022-0005
How to Apply	Click on *Apply* at the bottom of the opportunity to start your application.
Description	The National Geospatial-Intelligence Agency is offering a postdoctoral fellowship.

What will I be doing?

Water is a vital component to human health and is closely linked with global security. As an ORISE participant, you will take part in a community of scientists and researchers engaged in cutting edge research to address water security topics in one of two NGA Research Technical Teams: the Foundation Team or the Predictive Analytics Team.

NGA's Research Directorate, Foundation Team, advances capabilities and disruptive technologies to observe, extract, represent and attribute natural and man-made features, terrain, and bathymetry to characterize the earth. Research to exploit geospatial data to build future GEOINT capabilities addressing systemic and emerging defense and intelligence missions is also performed.

NGA's Research Directorate, Predictive Analytics Team, encompasses techniques from data mining, predictive modeling, and machine learning that analyze current and historical facts to make predictions about future or other unknown events. Sometimes the event is in the future, but predictive analytics can be applied to any time of unknown – past, present or future. Your participation in and contributions to this research will support President Biden's Executive Order on tackling the climate crisis, for which water security is a major component.

Where will I be located?
Springfield, Virginia, or St. Louis, Missouri

What is the anticipated start date?
NGA is ready to make appointments immediately. 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?
Appointments are initially for one year with the option to extend the appointment for up to four additional years, contingent upon project needs and funding availability.
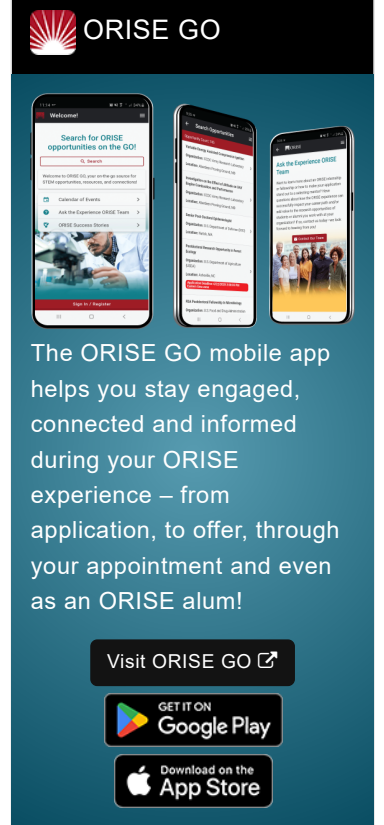
What are the benefits?
As the selected candidate, you will receive:

- Stipend payments, determined by NGA, based on your academic credentials and commensurate with GS Locality Pay Tables
- Health Insurance Allowance
- Relocation Allowance, if you are located more than 50 miles one way from the hosting facility
- Travel Expense Allowance
- Education and Research Support Allowance

Security Clearance

You must have or be eligible to obtain and maintain a security clearance for the duration of your appointment. It is expected that after completing the necessary application for clearance a fitness

determination will allow participation to begin with unclassified material, while awaiting a clearance.

About NGA

The National Geospatial-Intelligence Agency (NGA) delivers world-class geospatial intelligence that provides a decisive advantage to policymakers, warfighters, intelligence professionals and first responders. Anyone who sails a U.S. ship, flies a U.S. aircraft, makes national policy decisions, fights wars, locates, targets, responds to natural disasters, or even navigates with a cellphone relies on NGA. NGA enables all of these critical actions and shapes decisions that impact our world through the indispensable discipline of geospatial intelligence (GEOINT).

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 have a doctoral degree or be within nine months of completion of that degree. Degree must have been received within five years of the appointment start date.

U.S. military veterans who have been honorably discharged (or who have been medically discharged because of a service-connected disability) and who received a doctoral degree within ten years of the desired start date are also eligible.

Highly competitive applicants will have education and/or experience in one or more of the following:
Hydrology
Civil Engineering
Physical and/or Natural Sciences
Geographic Information Systems
Remote Sensing
Data mining
Machine Learning
Predictive Modeling

U.S. citizenship is required.

Submission of an application for this position is authorization for NGA its representatives, and other federal agencies to obtain information relating to the applicants background, educational and professional activities, and online presence for the purpose of conducting risk-based assessments to identify and mitigate conflicts of commitment (CoC) and conflicts of interest (CoI) as defined by National Security Presidential Memorandum-33.

By submitting an application, applicants understand the information is for official use only by the federal government and the information may be disclosed only as allowed by law. This authorization shall remain in effect as long as applicant applies for or receive federal funding or requires access to Controlled Unclassified Information or Classified National Security Information. Applicant understands that their information will be protected from unauthorized disclosure and the collection, maintenance, and disclosure of my information is governed by the Privacy Act.

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.
- 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. 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 orisedod@orise.orau.gov.. Please list the reference code of this opportunity [NGA-2022-0005] 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:** Doctoral Degree received within the last 60 months or anticipated to be received by 1/30/2023 12:00:00 AM.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (17 👁)
  - **Earth and Geosciences** (9 👁)

- - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (8 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Physics** (2 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).