

**Opportunity Title:** Fellowship in Information Technology Architecture  
supporting Research and Development

**Opportunity Reference Code:** NGA-2021-0027



**Organization** U.S. Department of Defense (DOD)

**Reference Code** NGA-2021-0027

**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 post-masters fellowship at NGA, a world leader in timely, relevant, accurate and actionable GEOINT.

**What will I be doing?**

Our ideal candidate is an Information Technology Architect who would like to gain experience in ensuring that the underlying IT architecture across NGA and the Intelligence Community delivers the capabilities that address current and future business needs. Under the guidance of a mentor, you will have opportunities to articulate vision and strategy, suggest approaches for technical direction, articulate tradeoffs, and build productive and successful relationships at all levels of the organization.

Specific experiences may include:

- Identify and propose ways to modernize Research IT capabilities: assess strengths and shortcomings in information systems' architectures, define risk mitigation approaches, resolve security alerts, and preempt possible adverse outcomes of identified weaknesses.
- Use systems, cloud, and high-performance computing processing skills and experience to assist in the development of architecture of new systems to support research function areas.
- Devise and propose new and improved architectures within the following focus areas: securing systems against cyber threats, Machine Learning/Artificial Intelligence, Geospatial Visualization, Multi & Hybrid Cloud, and Multi-Platform (Windows, Linux).
- Discover and propose guidance to teams related to IT strategy and a vision for implementing and transitioning capabilities from an R&D to enterprise IT architecture.

**Where will I be located?**

You will conduct research remotely under the direction of a mentor who will be based in Springfield, VA, or St. Louis, MO, until you acquire a security clearance. Once cleared, you will be based onsite at either campus.

**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 a participant with NGA, you will receive:

- Stipend, 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

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

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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, target, 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.

#### 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 master's degree or be within nine months of completion of that degree. A background in Information Technology and/or information Technology applied to Research and Development is preferred.

Highly competitive applicants will have education and/or experience in one or more of the following:

- Developing IT strategic system architecture plans, within the policy constraints of a Government Agency
- Deployment, operations, and maintenance of multiple operating systems, such as Windows Desktop/Server, Linux
- Proficiency in scripting languages, such as Python, PowerShell, and/or Bash
- Understanding and/or have experience in Data Center IT Systems' operations, such as Storage Systems, High Performance Compute
- Designing and/or implementing complex solutions in Windows and Active Directory, such as OS Image deployment, Group Policy, and cyber security
- Demonstrated experience of IT processes, tools and operating systems
- Demonstrated experience architecting complex Geospatial Intelligence systems
- Strong verbal and written communication, presentation skills, and organizational 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

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applicant or by academic advisors from internal institution systems may be submitted. [Click here for detailed information about acceptable transcripts.](#)

- 1 Recommendation

If you have questions, send an email to [ORISEDOD@orise.orau.gov](mailto:ORISEDOD@orise.orau.gov). Please list the reference code of this opportunity, NGA-2021-0027, 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:** Master's Degree received within the last 60 months or anticipated to be received by 5/31/2022 11:59:00 PM.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Communications and Graphics Design** (2 )
  - **Computer, Information, and Data Sciences** (17 )
  - **Earth and Geosciences** (21 )
  - **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 )