Opportunity Title: NGA: Advanced Research in Anticipatory Analytics
Opportunity Reference Code: NGA-AAP-19-20

Organization U.S. Department of Defense (DOD)

Reference Code NGA-AAP-19-20

How to Apply To be considered for an ORISE fellowship with NGA, please submit the following:

- **Resume or CV**
- **Transcripts** - Transcript verifying receipt of Degree/or identifying current enrollment.
- **2 References**
  - An email with a link to the reference form will be emailed to the applicant upon completion of the on-line application. Please send this email to persons you have selected to complete a reference.
  - References should be from persons familiar with your educational and professional qualifications (include your thesis or dissertation advisor, if applicable). Personal references are NOT acceptable.

Description 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).

NGA is conducting advanced research in Anticipatory Analytics. The NGA Research Anticipatory Analytics Pod conducts research which advances the discovery and modeling of associations, trends, patterns and system dynamics that support the conditional exploration of potential events. They create computational methods to transform traditional GEOINT and open source data into spatio-temporal information describing events and activities. They develop quantitative and predictive analytic models to capture hidden relationships among events and activities and to measure change and characterize uncertainty. They enrich the field of GEOINT by combining full spectrum source data with modeling capabilities that attribute real world object behavior to known signatures and doctrines. Join the Anticipatory Analytics Pod to develop the ability to capture knowledge as models that are dynamically refined by recent spatial, temporal and domain observations to represent the most current understanding of world events, systems and discrete entities. NGA is interested in scientists to aid our research efforts in this unique problem set that has special application to the Intelligence Community and the Department of Defense.

Headquartered in Springfield, VA, with facilities in St. Louis, MO, NGA is a member of the U.S. Intelligence Community and a Department of Defense (DoD) Combat Support Agency.

For more information on the National Geospatial-Intelligence Agency's Visiting Scientist Program, please visit the NGA ORISE website.

Qualifications Student applicants must be completing a Ph.D. or post-doctoral appointment with backgrounds in Mathematics, Statistics, Computer Science, Geospatial Information Science, Geography, Physics, Geometry, Visual Cognition, Nuclear Physics, Astrophysics, Remote Sensing, or a related field. NGA and the selected candidate will cooperatively define mutual research assignments and goals in support of the NGA mission and the candidate's educational pursuits.

- Current college or university faculty members on sabbatical are also eligible.

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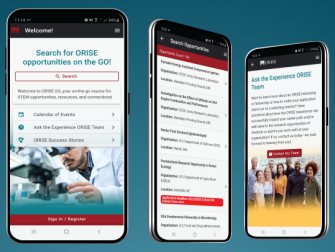
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- Applicants must demonstrate experience applying the scientific method and modern research techniques in a field directly applicable or highly related to the Research Pod.

- Applicants must demonstrate experience in algorithm development and programming to test and validate the proposed methods.

- Applicants should have experience conducting research within a research environment and show an ability to conceptualize a broad research agenda, to plan and execute specific research projects, and to meet research expectations. Applicants should have excellent verbal and written communication skills.

- U.S. citizenship is required for the applicant. Please see further eligibility under Security Requirements.

- If the research project is classified, a background check will be conducted for a Sensitive Compartmented Information (SCI) security clearance and completion of a Questionnaire for National Security Positions will be required. Visiting scientists are also subject to Counterintelligence Polygraph examinations and drug testing in order to maintain access to Top Secret information. Please refer to section on Security Requirements.

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** (1 👁)
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Other Non-Science & Engineering** (2 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)
  - **Social and Behavioral Sciences** (27 👁)