

About the Program

The IDA Data Science Fellowship provides recent graduates a unique opportunity to develop and apply data science skills to important issues in national security. Data Science Fellows will investigate the ways machine learning, artificial intelligence, statistics, and big data methodologies contribute to national security and gain experience developing advanced data science tools. They will use their critical thinking and analytic skills to work on challenging real-world national security issues.

In a collaborative team environment, Fellows perform data manipulation and statistical, econometric, predictive, descriptive, and other quantitative analyses to answer national security-related research questions. Fellows should expect to learn while creatively contributing to interdisciplinary project teams.



What to Expect

Fellows will have an opportunity to work research questions in areas such as:

- Appraisal of current DoD investments in a broad range of areas: from human factors to autonomous systems, from materials science to nuclear weapons effects, from social behaviors to quantum computing;
- Analyze and research questions on DoD personnel, military readiness and efficacy, and organizational efficiency topics;
- Assessment of federal agency information and computing architectures that support data science applications (i.e., large, distributed data sets and computational assets);
- Application of data exploration, text analytics, forecasting, statistical inference, simulation to areas of military personnel, manpower, and acquisition of DoD weapon systems.

Who Should Apply?

We seek highly qualified students with strong academic backgrounds. This is a full-time position and is only open to recent recipients of a bachelor's or master's degree. Individuals with degrees higher than a master's degree are not eligible to apply. Candidates with either a bachelor's degree or a master's degree in economics, statistics, operations research, mathematics, physics, computer science, data science, or related disciplines with a strong foundation in statistics or applied mathematics are encouraged to apply.

U.S. citizenship is required.

Over the course of the three-year program, fellowship experiences will include:

Involvement in workshops and discussions on relevant topics

Mentorship from members of the IDA research staff

Training on specific analytical methods and tools

Attendance and presentation at select professional society meetings

Accepting applications between September 1, 2020, and January 29, 2021.

For more information about the Data Science Fellowship Program, visit idalink.org/Data-Science-Fellowship.

IDA is an equal opportunity employer.