

# CAREERS AT THE NATIONAL SECURITY AGENCY

## About the Mathematics Development Program

Newly-hired Mathematicians and Statisticians begin their careers in one of three Math Development Programs: the Cryptologic Mathematician Program (CMP), the Applied Mathematics Program (AMP), or the Cyber Assurance Mathematics Program (CAMP). These three-year programs share a common goal: to produce Mathematicians and Statisticians who are broadly knowledgeable in the spectrum of mathematical sciences used at NSA.

As new communication technologies emerge, so will new challenges for Mathematicians and Statisticians at NSA. They must work with others in STEM, information assurance, cyber security, and other disciplines. No description of mathematics at NSA can ever be final and complete.

## Program Requirements

During these three-year programs, each participant will study cryptologic mathematics and related subjects in NSA-taught classes and complete rotational assignments to build skills in specific mission-related competency areas.

While there is no requirement for any previous programming experience, at NSA you must learn to use computing platforms effectively. Upon conclusion of the three-year program, each graduate will place in an office relating to the program's core competencies based jointly on the needs of the mission and the participant's preferences.

## Qualifications

Minimum acceptable to be considered for the position:

- Bachelor's, Master's, or Doctoral degree in Mathematics, Statistics, Physics, or Computer Science is preferred
- 24 credit hours of advanced mathematics and/or statistics

The following skills are desired:

- Programming
- Experience in the design, development, use, and evaluation of mathematics models, methods, and/or techniques (e.g., algorithm development) to study issues and solve problems

## Salary

Offers are based on education level and years of relevant experience.

## How to Apply

NSA has a rigorous application process for all applicants. All applicants must submit a resume using our online application system.

To apply to the **Mathematics Development Program (MDP)**:

- Navigate to **[IntelligenceCareers.gov/NSA](https://www.intelligencecareers.gov/NSA)**.
- Click **Search NSA Jobs**.
- Select **Mathematician** or **Mathematical Statistician** and click **Apply**.

In addition to applying online, applicants must submit a resume and all college transcripts to **[mathjobs@nsa.gov](mailto:mathjobs@nsa.gov)**. Questions regarding the program can also be sent to this email address.

NSA is unique in its ability to offer the opportunity to work in diverse areas of applied mathematics. The primary responsibility of NSA Mathematicians and Statisticians is to solve problems associated with signals intelligence (the interception, collection, and analysis of foreign signals) and information security (assuring confidentiality, integrity, and availability of information).

In addition to cryptologic mathematics, Mathematicians and Statisticians work in data compression, machine learning, data science, speech/image/video processing, signals analysis, human language technology, network vulnerability analysis, and cyber security. They bring a wealth of expertise including, but not limited to, number theory, finite field theory, coding theory, Fourier analysis, graph theory, probability, and statistics.

For more information or to apply online, visit  
**[IntelligenceCareers.gov/NSA](https://www.intelligencecareers.gov/NSA)**  
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