

Opportunity Title: 2021 NSF Math Sciences Graduate Internship

Opportunity Reference Code: NSF-MSGI-2021

Organization National Science Foundation (NSF)

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How to Apply Click on *Apply* now to start your application.

Application Deadline 2/1/2021 11:59:59 PM Eastern Time Zone

Description The National Science Foundation (NSF) Mathematical Sciences Graduate Internship (MSGI) Program provides opportunities for mathematical sciences doctoral students to participate in internships at federal national laboratories and research facilities.

What will I be doing?

The NSF Mathematical Sciences Graduate Internship (MSGI) program is aimed at students who are interested in understanding the application of advanced mathematical and statistical techniques to "real world" problems, regardless of whether you plan to pursue an academic or nonacademic career. Internship activities will vary based on the assigned research project and hosting facility. As part of your application, you will identify your top 3 research projects from the 2021 NSF MSGI Project Catalog. You can review the catalog here:

<https://orise.ora.gov/nsf-msgi/project-catalog.html>

All research projects are in disciplinary areas of the mathematical sciences supported by the NSF Division of Mathematical Sciences (DMS).

- Algebra
- Analysis
- Applied Mathematics
- Combinatorics
- Computational Mathematics
- Foundations
- Geometric Analysis
- Mathematical Biology
- Number Theory
- Probability
- Statistics
- Topology

Applicants are encouraged to review the information about DMS research areas at <https://www.nsf.gov/funding/programs.jsp?org=DMS>. DMS seeks to have equal representation across the mathematical sciences community by achieving roughly an equal number of placements in the 3 areas of pure mathematics, applied mathematics, and statistics.

How long is the internship?

Internship appointments are for **10 consecutive weeks on site** at the assigned hosting facility between the months of May and September.

Where will I be located?

You will be located at a DOE or other federal national laboratory. Your exact location is dependent on the assigned project and hosting facility. For a list of hosting facilities, please visit: <https://orise.ora.gov/nsf-msgi/>.

In response to the evolving situation related to the COVID-19 pandemic, hosting facilities may modify their operation schedule and access to facilities to ensure the health and safety of their entire workforce while

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maintaining operational effectiveness. Hence, the appointment date and location are subject to change contingent on hosting facility guidelines and may result in a virtual placement.

The Benefits:

- Stipend: \$1,200 per week during the 10-week internship period.
- Inbound/Outbound Travel Reimbursement: May be eligible for reimbursement up to \$2,000 if U.S. residence is more than 50 miles from the hosting facility.

Nature of Appointment

Participants will not enter into an employee/employer relationship with ORISE, ORAU, DOE, NSF or any other office or agency. Participants will be affiliated with ORISE for the administration of the appointment through the ORISE letter of appointment and Terms of Appointment.

Qualifications You must meet the following to be eligible for an internship:

- Be enrolled as a full-time graduate student at an accredited U.S. college pursuing a doctoral degree in mathematics, statistics or applied mathematics.
- Have a cumulative graduate GPA of 3.00 or higher on a 4.00 scale at the time of application.

The NSF MSGI program encourages applications from underrepresented groups, including women, minorities, persons with disabilities, and veterans, in order to broaden and diversify those participating in mathematical sciences.

Additional Information:

- U.S. citizenship is not required for participation in the program. However, depending on the research project, U.S. citizenship or permanent residence may be required. For non-U.S. citizens, internships are contingent upon having a valid immigration status. ORISE will work with participants to determine eligibility.
- Candidates selected for an internship appointment will be required to provide proof of enrollment for Spring 2021.
- Students graduating with a doctoral degree prior to Spring 2021 are not eligible to participate.
- Participants are required to have health insurance coverage during the internship period and provide proof of coverage prior to the start of the internship.

For program details, please visit: <https://orise.orau.gov/nsf-msgi/>

A complete application consists of:

- Profile information
- Essay Questions - Goals, experience and skills relevant to the NSF MSGI program
- Preferred project(s) - You must choose at least one, but no more than three projects from the 2021 NSF MSGI Project Catalog located at <https://orise.orau.gov/nsf-msgi/project-catalog.html>
- Academic Records - Unofficial transcripts or copies of the student academic records provided by the applicant or by academic advisors from internal institutional systems may be submitted. For this opportunity, an unofficial transcript or copy of the student academic records showing full-time enrollment in a doctoral program may be submitted. For students in the first year of graduate school, academic transcript of the undergraduate degree including the degree and date the degree was awarded must be provided instead. Academic records must include the name, logo or other identification of the academic institution, name of the student, completed coursework, and grades. Documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system.
- Current Resume/CV
- Two (2) Recommendations - Applicants are required to provide contact information for

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two recommendations in order to complete the application. You are encouraged to request a recommendation from a professional who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. Recommendation requests must be sent through the Zintellect application system. **Recommenders will be asked to complete a recommendation in Zintellect. Letters of recommendation submitted via email will not be accepted.**

Recommendations Deadline: February 1, 2021 11:59PM EST

If you have questions, please send an email to NSF-MSGI@ORISE.ORAU.GOV. Please list the reference code [NSF-MSGI-2021] for this opportunity in the subject line of your email.

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**Eligibility
Requirements**

- **Degree:** Currently pursuing a Doctoral Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Mathematics and Statistics** (11 )