Quantitative Research Methods for STEM Education Scholars Program

2022-23 Application Instructions

The NSF QRM Scholars Program is an NSF-funded project offered by the University of Maryland, College Park, aimed at building capacity in STEM Education research. The program provides quantitative research training, workshops, mentorship, and opportunities for Scholars to share their work to a broader audience. Scholars will attend the ***mandatory* 3-day VIRTUAL Fall Training Institute (Oct. 21, 22, & 28, 2022)** and **2-day IN-PERSON Winter Training Institute (Feb. 24-25, 2023)** and will receive additional mentorship and training throughout the academic year while they are at their home institution.

To be eligible for the QRM Scholars Program, applicants

- must be early career faculty or postdoctoral fellows at a US institution and no more than 10 years from their degree; and
- have a research focus related to issues of access and equity of underrepresented populations in STEM within either PK-12 or postsecondary settings.

The QRM Scholars Program is intended to be diverse, and we encourage submissions from applicants who identify with traditionally underrepresented groups/backgrounds.

The QRM Scholars Program application asks the following:

- ***Name and Contact Information***
- ***Primary Organization and Appointment Title***
    - Indicate whether or not your Primary Organization is a US Institution/MSI
- ***Date of Receipt of your Doctoral Degree***
- ***Link to your Public Google Scholar Profile***
    - Instructions for creating a profile on Google Scholar can be accessed via the Google Scholar Citations Help page. For additional help, see the step-by-step guide compiled by the University of Oklahoma University Libraries.
- ***Proposal Title and Structured Abstract*** (50 words maximum per section)
    - Briefly describe your proposed research project for your Scholar Year (note: your proposal can be the writing of a larger proposal for a federal or foundation grant competition).
    - ***Background/Context:*** Present the relevant background information.
    - ***Purpose/Research Questions:*** Identify the purpose of the research /

primary research questions.
    - ***Population of Interest:*** Describe the population of interest for this research, potentially including units of observation (e.g., schools, students, teachers), settings, etc.
    - ***Type of Research Design:*** Describe the proposed research design (e.g., randomized controlled trial, observational study, secondary data analysis), if known.
    - ***Data Description (and Data Collection Plan):*** Indicate the status of your data collection and describe the proposed data sources (e.g., cross-sectional, longitudinal, secondary data, achievement, attitudes, knowledge, behaviors). Describe your data collection plan if applicable.
    - ***Proposed Analysis:*** Discuss the plan for analyzing data, if known.
- ***Current CV*** (2 pages maximum, single-spaced, PDF upload)
- ***Statement of Interest*** (1 page maximum, single-spaced, PDF upload)
    - Describe your background and personal goals;
    - Describe how your project aligns with the goals of the NSF QRM Scholars Program (see program website for more details).
- ***Administrative Letter of Support*** from your Department Chair and/or Research Supervisor (1 page maximum, single-spaced, PDF upload)
    - Your Department Chair or Research Supervisor's should indicate support of your participation in a program that will require, at minimum, participation during a **3-day VIRTUAL Fall Training Institute (Oct. 21, 22, & 28, 2022);** attendance at the intensive **2-day IN-PERSON Winter Training Institute at University of Maryland, College Park (Feb. 24-25, 2023** -- note that funds will be provided for travel to the Winter Training Institute); and participation in ongoing live-streamed or asynchronous methodological workshops throughout the Scholar Year (dates TBD; workshops range from 1-3 days).
    - This letter should be signed by your Department Chair or Research Supervisor but you will need to upload the document with your materials.

The application portal for the 2022-23 QRM Scholars Program will open August 19, 2022. The priority deadline is September 18, 2022. All applications should be submitted via the Application Portal. For more information, check our application page, our Frequently Asked Questions, or contact us via email at nsf-qrm-scholars@umd.edu.