



# Postdoctoral Fellow in Mathematics Education

The Department of Mathematics and Applied Mathematics at Virginia Commonwealth University seek a postdoctoral fellow for the NSF-funded project **Mathematics Graduate Teaching Assistant Professional Development Focused on Implementation of Evidence-based Teaching Practices** ([DUE-2013422](#)).

The project aims to serve the national interest by preparing mathematics graduate teaching assistants (MGTAs) to implement teaching practices designed to improve the success of students in undergraduate mathematics courses. The project will develop a multi-year professional development program focused on engaged learning, inclusive teaching, and equity (ELITE-PD). This is a collaborative project that will be implemented at Oregon State University (OSU), Virginia Commonwealth University (VCU), and San Diego State University (SDSU). As a result, the project will have multiple contexts for examining the impact of the professional development on MGTA teaching attitudes and practices, as well as on the success of the undergraduates in the MGTAs' classes. The project will compare outcomes at the three institutions to generate new knowledge about MGTA professional development, to explore what works in which contexts, and to develop an explicit theory of change related to MGTAs' teaching practices.

The postdoctoral fellow will play an integral role in collaboratively developing the ELITE-PD program and engaging in data collection and analysis. Duties include, but are not limited to:

- Regularly collaborating, both in person and virtually, with members of the research team at OSU, VCU, and SDSU;
- Conducting semi-structured interviews with graduate students and department faculty and analyzing the interview data;
- Administering surveys from the X-PIPS-M suite and analyzing the survey data;
- Conducting classroom observations using the EQUIP observation tool and analyzing the observation data;
- Presenting results at conferences, symposiums or similar events.
- Teaching graduate courses focused on active learning, inclusive teaching, and equity as part of the ELITE-PD program.



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The primary responsibility of the postdoctoral fellow will be conducting mathematics education research; however, this position also involves teaching up to 1 course per semester that is part of the ELITE-PD program. Candidates for these positions should have completed their PhD in mathematics, education, or a related field. A masters in mathematics or a closely related field is required in order to teach graduate courses in the department.

This is a two-year position with the expectation of working in person at Virginia Commonwealth University in Richmond, VA (dependent upon state and university guidance related to COVID-19). A start date of June 1, 2021 is preferred but flexible (through the summer of 2021). The postdoctoral scholar will receive a \$55,000 yearly salary plus benefits (with a potential raise during the second year) and travel reimbursement during the second year for presenting at conferences.

Questions concerning the postdoctoral fellow position at VCU should be directed to Dr. Erica R. Miller at [ermiller2@vcu.edu](mailto:ermiller2@vcu.edu). Applications to the VCU position must be submitted through the official job site at <http://www.vcujobs.com/postings/101428>. Applications should include a **curriculum vita/resume** and a **letter of application** describing (1) experience implementing active, inclusive, and equitable teaching practices and (2) research experience in education (including information on qualitative and/or quantitative research experience). In addition, candidates shall provide **three professional and/or academic letters of reference**.

As a note, this is a collaborative grant and a second postdoctoral position is available at Oregon State University. Questions concerning the postdoctoral fellow position at OSU should be directed to Dr. Mary Beisiegel at [beisiegm@oregonstate.edu](mailto:beisiegm@oregonstate.edu). To apply to the OSU position, email application materials to Dr. Mary Beisiegel with the subject line **MGTA PD POSTDOC APPLICATION**. If you are interested in working at either institution, please submit an application to both jobs. However, you may use the same materials for both applications.



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