**Postdoctoral Researcher Mathematics Education**

**School of Education, University of Delaware**

The postdoctoral researcher will support the second phase of research for the NSF-funded project *Improving Professional Development in Mathematics by Understanding the Mechanisms that Translate Teacher Learning into Student Learning* (Research Team PIs: Jim Hiebert, Lynsey Gibbons, Erica Litke). The project is investigating *how* the knowledge and skills teachers acquire through an ongoing coaching-based professional development program translate into more ambitious mathematics teaching and richer student learning. We aim to develop, test, and refine a theory of action that predicts the obstacles teachers will face as they apply their learning to their classroom teaching plus the contextual supports that help teachers surmount these obstacles. We are following two cohorts of Delaware teachers, grades 4-7, for several years to trace growth in teacher learning, changes in teaching practices, and increases in student learning.

For the 3rd and 4th years of the project (beginning Summer 2023), we will gather data frequently on how teachers analyze teaching, plan and implement targeted mathematics lessons, and describe the benefits and challenges of changing their practices. We will also follow coaches’ experiences during this time as well as assess changes in students’ learning on the targeted topics.

Within this role, the postdoctoral researcher will receive mentored professional development, research training, support for conference travel, and support toward individual professional goals.

The salary for this position is supported by a research grant from the National Science Foundation and includes a comprehensive benefits package.

**Major Responsibilities:**

* Coordinate and manage the data collection process, including coordinating with the professional learning facilitators, coaches, and teachers to arrange for data collection, and assisting with video-recording classroom targeted lessons;
* Ensure appropriate data transfer and storage;
* Assist with coding and analyzing data, preparing conference proposals, and writing manuscripts for publication;
* Participate in, and conduct observations of, professional learning experiences;
* Ensure compliance with human participant policies and procedures;
* Pursue personal research interests related to project goals.

**Qualifications:**

* PhD or EdD (degree completion by August 2023) in mathematics education or a related field.
* Teaching K-12
* Managing and organizing data collection and analysis
* Facilitating teacher learning / professional development
* Communicating with school personnel
* Working as a member of a research and development team
* Professional writing
* Demonstrated understanding and consideration of the differing needs and concerns of individuals with varying identities, cultures, and backgrounds.
* Committed to fostering a workplace culture of belonging, where diversity is celebrated, and equity is a core value

**Application Instructions**

Please submit the following using the University of Delaware’s online system at https://careers.udel.edu/cw/en-us/listing/

* One-page cover letter summarizing qualifications and experience, interest in the project, and career / research goals
* Resume (CV)
* One example of professional writing
* Names of two referees who could submit recommendation letters

Review of candidates will begin April 30, 2023 and continue until the position is filled. The preferred start date is July 1, 2023.

Send queries about the position to Jim Hiebert at hiebert@udel.edu.