

WORCESTER POLYTECHNIC INSTITUTE

Postdoctoral Position in Math Learning and Cognition, Worcester Polytechnic Institute

The Educational Psychology and Mathematics Learning Lab at WPI seeks to hire a postdoctoral fellow under the direction of Dr. Erin Ottmar in the Learning Sciences, Technology, and Psychology programs in the Social Sciences and Policy Studies Department.

The postdoc would join an interdisciplinary team to work on a large 3-year federally funded efficacy project examining the intersections of algebra problem solving, math cognition, student errors and strategy use, feedback, dynamic technology, and games in learning. This student-level randomized controlled trial will provide a lot of opportunities to examine student engagement and achievement outcomes as well as log-level data analysis of student interactions with technology.

The postdoc will be expected to participate fully with all research activities including: designing instructional and assessment materials, conducting pilot studies with students and teachers in mathematics classrooms, collaborating with faculty at other institutions, analyzing quantitative data, mentoring graduate and undergraduate students, and writing manuscripts for publication. The postdoc will also have opportunities to continue their own independent research in related areas.

The candidate should have a PhD or EdD in psychology, education, learning sciences, computer science (or a related field) and have substantive knowledge and background in education sciences, learning, math education, quantitative methods, and/or developmental/ educational/ cognitive science. Given the interdisciplinary and collaborative nature of this project, applicants should have an interest in learning about and applying theories, perspectives, and methodologies from other areas. The candidate should also have strong quantitative research and writing skills, have strong communication skills, and be highly organized.

The start date is flexible but can begin after June 1, 2018. The position is full time (12 months) for up to 3 years. Salary and benefits are competitive.

Review of materials will begin immediately and will continue until the position is filled.

Candidates should submit

- Curriculum Vitae
- Research statement describing your training and research interests, including why your background and interests are a match for this position
- Contact information for 3 references
- 2 Samples of written work

Please send application materials or questions about the position to Dr. Erin Ottmar at erottmar@wpi.edu.

Share widely with your Math Ed, Psychology, Learning Sciences, and Computer Science colleagues!