

## IES POST-DOCTORAL TRAINING GRANT

# MATHEMATICAL THINKING, LEARNING, AND INSTRUCTION

WISCONSIN CENTER FOR EDUCATIONAL RESEARCH • UNIVERSITY OF WISCONSIN-MADISON

**Dear Colleague:** We are pleased to announce a new postdoctoral training grant in mathematics education.

### OUR VISION

There is a clear and recognized need for well-trained mathematics education researchers who are able to conduct scientifically based qualitative and quantitative research that addresses immediate and long-term questions about the efficacy of educational programs and policies, and who can provide an empirical basis for future designs of curricula, assessments, instruction, and learning environments. With funding from the US Department of Education's Institute of Education Sciences (IES), we now offer a two-year interdisciplinary, postdoctoral training program, situated at the University of Wisconsin–Madison, which aims to increase postdoctoral capacity to conduct rigorous research in the topic area of mathematics education. The program provides recent graduates opportunities to experience a range of methods, including graduates from curriculum & instruction departments seeking to learn quantitative methods that support causal inference, as well as psychologists and other social scientists seeking to conduct studies in natural settings and collect, analyze, and interpret process-level data. The training program emphasizes the interdisciplinary nature of the mathematics education research opportunities at the University of Wisconsin–Madison. It addresses broad research interests, including: Exploratory research, basic processes in learning and instruction, development and innovation, efficacy and replication, and measurement.

### PROGRAM DETAILS

We frame the postdoctoral experience in terms of project-based learning by anchoring the training in ongoing, funded research on mathematics education. The program also offers our postdoctoral fellows individualized experiences created in collaboration with a mentoring committee including: research methods courses, campus colloquia, and independent research and supervised grant writing projects designed to match the needs of individual participants. The training grant Mentoring Team includes: **Mitchell J. Nathan**, director of the postdoctoral training program, professor of educational psychology (learning sciences) and mathematics education; **Eric Knuth**, professor of mathematics education; **Amy Ellis**, associate professor of mathematics education; **Anita Wager**, assistant professor of mathematics education; **Martha W. Alibali**, professor of psychology and educational psychology (human development and learning sciences); **Charles Kalish**, professor of educational psychology (human development); and **Peter Steiner**, assistant professor of mathematics education (quantitative methods).

Further details about the faculty and research opportunities are available at our website, <http://iesPostDoc.wceruw.org>.

### HOW TO APPLY

We seek highly qualified applicants who have earned a doctorate degree in mathematics education, psychology, learning sciences, or related areas. The positions carry an annual stipend plus health insurance coverage and support for professional travel and professional development. Review of applications will begin during Fall 2013 and will continue until the positions are filled. The starting date is negotiable. **Applicants must be US citizens or permanent US residents.** Please send all application materials to [IESPostDoc@wcer.wisc.edu](mailto:IESPostDoc@wcer.wisc.edu): (a) a letter that summarizes your research experiences, areas of interest and identifies a primary and secondary mentor from among the program faculty; (b) curriculum vitae; and (c) two publications or manuscripts. Also arrange for three confidential letters of reference to be sent to [IESPostDoc@wcer.wisc.edu](mailto:IESPostDoc@wcer.wisc.edu) with the applicant's name in the subject line. If you require further information, please contact Dr. Mitchell J. Nathan, [mnathan@wisc.edu](mailto:mnathan@wisc.edu), 608-263-0563, or Dr. Anita Wager, [awager@wisc.edu](mailto:awager@wisc.edu), 608-263-5142.