



## Postdoctoral Research Fellow Engineering Education Research University of Michigan

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February 19, 2018

Dr. Cindy Finelli is looking for an outstanding engineering education researcher to collaborate on research to assess the impact of classroom design on faculty teaching and student learning in engineering. Specifically, this NSF-funded project investigates how flexible classrooms—spaces where the tables and chairs can be rearranged into different layouts—influence instructors’ selection of learning activities, instructors’ use of formative assessment, and students’ interpretation of in-class activities. Dr. Finelli is associate professor of both Electrical Engineering & Computer Science and Education, and she directs the Engineering Education Research program at the University of Michigan. The postdoctoral research fellow will collaborate with Cindy and her colleagues to:

- mentor graduate and undergraduate student research assistants,
- refine and validate research instruments including a classroom observation protocol, interview protocol, and student survey,
- execute research activities including classroom observations, faculty and student interviews, and student surveys,
- synthesize and analyze both qualitative and quantitative data,
- interpret findings and propose future work,
- develop and implement professional development for instructors, and
- communicate research findings through professional publications and presentations.

The ideal candidates for this position will have a strong interest in making engineering education research their primary scholarly agenda in their future career.

**Required qualifications** for this position include:

- (1) PhD in engineering education or related field,
- (2) engineering education research experience involving application of relevant educational theories and analysis using both quantitative and qualitative research methods,
- (3) ability to work both independently and as part of a collaborative team, and
- (4) excellent communication and organizational skills.

**Desired qualifications** include:

- (1) experience with instrument development and assessment,
- (2) successful publication record, and
- (3) formal teaching experience.

To apply, please submit the following to Cindy Finelli ([cfinelli@umich.edu](mailto:cfinelli@umich.edu)):

- letter of interest in the position which includes a description of long-term research interests and career goals (no more than three pages),
- current curriculum vita,
- one representative engineering education research publication, and
- the names and contact information of three professional references.

The postdoctoral research fellow will be appointed for one year and is expected to relocate to Ann Arbor, Michigan. Review of applications will begin on March 9, 2018, and the anticipated start date is June 1, 2018.