Three Post-Doctoral Research Associates
STEM Education Research
Michigan State University

The Automated Analysis of Constructed Response (AACR) Research Group (www.msu.edu/~aacr) in the CREATE4STEM Institute at Michigan State University will be seeking candidates to fill three one-year, 12 month (with possible additional years) Research Associate positions for research on assessment of STEM learning. We are an interdisciplinary team of Discipline-Based Education Researchers (DBER) from Biology, Genetics, Chemistry, Engineering, Education, and Statistics who are investigating computerized analysis of students’ writing in Science Technology Engineering and Mathematics (STEM) courses to model students’ thinking.

We are expanding our NSF-funded project to develop resources for analyzing undergraduate learning in the field of physiology. The selected Research Associate will participate in NSF-funded research projects in collaboration with MSU faculty in the Colleges of Education, Natural Science, and Engineering and will provide liaison to our partner institutions. Our research group has a strong post-doc researcher mentoring program and an excellent placement record of our researchers.

Applicants should have completed a doctoral degree in the life sciences or STEM education with experience in discipline-based education research (DBER) in biology. You should have a strong commitment to undergraduate STEM education and interest in working with a leading group of interdisciplinary STEM education researchers. Successful candidates will have a mix of some set of the following skills, which will enable the Research Associates to make unique contributions to the project team:

- disciplinary expertise in physiology
- disciplinary expertise in biology
- STEM education research
- assessment of learning
- learning progressions
- qualitative research methods
- statistical analysis
- machine learning
- publishing and presenting research findings
- database development
- web site development
- mentoring of undergraduate researchers

Excellent communication and organizational skills are required. You will be expected to participate in the mentoring of graduate and undergraduate research assistants. Women and minorities are strongly encouraged to apply. The salary is commensurate with education and experience and the appointment will be on an annual basis with renewal/reappointment contingent on a successful performance.

A complete application package will consist of a cover letter, CV, copy of transcripts, two samples of scholarly writing and names and email addresses of three references. The review of application materials will continue until the positions are filled.

At SABER, talk with Kevin Haudek (haudke@msu.edu) or Mark Urban-Lurain (urban@msu.edu) about your interest or possible candidates.

To apply, go to: http://careers.msu.edu and search for AACR or position 451270 or 438349
Applicants for either posting will be considered for all three positions.

MSU is an affirmative-action, equal-opportunity employer. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.