

Recruitment/Posting Title:

Post Doctorate Associate - Educational Psychology

Department:

GSE - Education Psychology

Salary:

Open

Posting Summary:

Nationally ranked among US News & World Report's Best Education Graduate Schools, Rutgers Graduate School of Education is part of New Jersey's flagship public university. Committed to advancing excellence and equity in education, the Graduate School of Education (GSE) at Rutgers University–New Brunswick seeks an outstanding scholar at the rank of Assistant/Associate Professor in Reading/Literacy Education to join the program in Literacy and Reading Education within the Department of Learning and Teaching and the GSE's equity, social justice, and urban teacher education programs.

The Post Doctorate Associate will collaborate with Dr. Chia-Yi Chiu, the web developer, and the PhD students, under the supervision of Dr. Chiu, on several methodological and technological developments proposed in the current NSF CAREER grant project. The specific tasks include developing new methods based on the core algorithms that have been developed and the corresponding R package, and participating in the construction of the web app for implementing the developed algorithms. These methodological developments will enhance the efficiency and effectiveness of the proposed algorithms, which in turn will improve teaching and learning in the STEM E-learning environment. The technological developments will lead to the immense increase in the applicability of the research project, which is the most efficient way to disseminate the research and in turn, broaden its impact.

The success of this current research project sponsored by NSF CAREER grant will lead to the development of the next-generation CD-CAT system that will be a significant tool for E-learning. This line of research is an excellent fit with the mission of the school of education, as the research plan focuses on the kinds of assessments that can be used to improve learning and the development of methodologies that have applications in small-scale classroom assessment. The Post Doctorate Associate will play a key role to the success of this line of research. This work will be important for Dr. Chiu's role as an Associate Professor in a research university and in keeping with the mission of a school of education in its strong implications for practice.

The Post Doctorate Associate is expected to start from September 1, 2021 to June 30, 2022.

Minimum Education and Experience:

PhD in Educational Statistics, Measurement, and Testing or related field

Required Knowledge, Skills, and Abilities:

- Specializes in research of Cognitive Diagnostic Modeling
- Fluent in the computer languages R and SQL because the research project involves developing the associated R package and web app
- Experience in computerized adaptive testing (CAT) research and R packaging is preferred
- Fluent in English
- Proficiency in academic writing
- Skills in team work

Equipment Utilized:

Software R, SQL, LaTeX

Physical Demands and Work Environment:

It is very likely that the work will be carried out remotely, depending on the university regulations and policies.

Overview:

Rutgers, The State University of New Jersey, is a leading national research university and the state of New Jersey's preeminent, comprehensive public institution of higher education. We are the region's most high-profile public research institution and a leading national research center with global impact.

Chartered in 1766 as Queen's College in New Brunswick, New Jersey, Rutgers University is the eighth oldest higher education institution in the United States, a land-grant university, and a member of the Association of American Universities, the Big Ten® Conference, and the Big Ten Academic Alliance. More than 69,000 students and 22,500 faculty and staff learn, work and serve the public at Rutgers locations across New Jersey and around the world. Rutgers includes Rutgers University-New Brunswick, Rutgers Biomedical and Health Sciences, Rutgers University-Newark, and Rutgers University-Camden. Rutgers comprises 33 schools and colleges and is home to more than 300 research centers and institutes. The University is dedicated to teaching that meets the highest standards of excellence; to conducting research that breaks new ground; and to providing services, solutions, and clinical care that help individuals and the local, national, and global communities where they live.

Statement:

Rutgers University–New Brunswick took root more than 250 years ago. We are the state's most comprehensive intellectual resource—the flagship of Rutgers, The State University of New Jersey, as designated by the Association of American Universities. We are the region's most high-profile public research institution and a leading national research university with a global

impact. Rutgers–New Brunswick also engages in community initiatives, new and small business development, and serves as a policy resource across New Jersey.

Today, Rutgers–New Brunswick is among the top 25 public national universities in the United States as ranked by US News & World Report. With over 50,000 students and approximately 10,000 faculty and staff, Rutgers–New Brunswick is a vibrant academic community committed to the highest standards of teaching, research, and service.

We educate New Jersey’s future leaders. With 17 schools and colleges, Rutgers–New Brunswick offers over 100 undergraduate majors and more than 200 graduate and professional degree programs. The university’s more than 500,000 living alumni are making a difference in all 50 states and on six continents.

Rutgers, The State University of New Jersey is an Affirmative Action/Equal Opportunity Employer and a NSF ADVANCE Institution.

Special Instructions to Applicants:

Your application should include the following materials:

- (1) cover letter summarizing qualifications;
- (2) current curriculum vitae;
- (3) research statement;
- (4) at least two, but no more than three, published or unpublished papers; and
- (5) names, addresses, phone numbers and email addresses of three individuals who may be contacted as references.

Submit these items as separate attachments preferably as PDF documents. Only complete applications and applications submitted electronically will be considered.

Quick Link to Posting and Application:

<https://jobs.rutgers.edu/postings/132198>

Campus:

Rutgers University-New Brunswick