A Postdoctoral Research Associate position at Rice University

Rice University’s Department of Statistics is dedicated to the advancement of the scientific discipline of statistics, the innovative application of statistics to meet modern scientific, engineering and societal challenges, the expert education of students in statistics and other disciplines, and statistical leadership in the local, national and international communities.

Applications are currently being accepted to fill one full-time, 12-month postdoctoral research associate position at the Department of Statistics in the School of Engineering. The postdoctoral research associate will be mentored by Professor Daniel Kowal.

Research will focus on modern challenges in Bayesian inference, prediction, and decision-making. Scientific measurement systems produce data at greater volume, velocity, and variety than ever before. In such settings, Bayesian models provide a valuable tool for inference and prediction: they aggregate multiple data sources, model a variety of dependence structures concurrently, and provide posterior uncertainty quantification. However, Bayesian models are often highly complex and computationally intensive, with posterior distributions that are difficult to interpret and cumbersome for rapid prediction and decision-making.

The goal of this research is to construct, compute, and evaluate scalable and interpretable approximations to complex Bayesian models.

**Position Qualifications**
Statistics with emphasis in Bayesian analysis, regression modeling, and statistical computing. Experience preferred in the research areas of Bayesian regression analysis (e.g., linear, additive, and BART models), dependent data models (e.g., time series, spatial, and functional data), prediction and decision analysis, model and variable selection, statistical computing, and survey data analysis. Experience gained through coursework qualifies.

To apply, send a curriculum vitae, a research statement, and three references. Please apply to [https://jobs.rice.edu/postings/24480](https://jobs.rice.edu/postings/24480).

**Salary** – $70,000 annually

**No Required Experience**

**About Rice University**
The George R. Brown School of Engineering ranks among the top 20 of undergraduate engineering programs (US News & World Report) and is strongly committed to nurturing the aspirations of faculty, staff and students in an inclusive environment.
We are seeking candidates who have demonstrated ability to lead and/or work collaboratively in teams comprised of individuals of diverse backgrounds, skills, and perspectives. Consistent with the National Research Council’s report, *Convergence: Facilitating Transdisciplinary Integration of Life Sciences, Physical Sciences, Engineering, and Beyond*, we are seeking candidates who have demonstrated ability to work in research groups that integrate the knowledge, tools, and ways of thinking from engineering, mathematics, and computational, natural, social and behavioral sciences to solve societal problems using a convergent approach.

We seek greater representation of women, minorities, people with disabilities, and veterans in disciplines in which they have historically been underrepresented; to attract international students from a wider range of countries and backgrounds; to accelerate progress in building a faculty and staff who are diverse in background and thought; and we support an inclusive environment that fosters interaction and understanding within our diverse community.

Rice University is an Equal Opportunity Employer with commitment to diversity at all levels and considers for employment qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national or ethnic origin, genetic information, disability, or protected veteran status.