Research Data Analyst 2

Description
The Stanford University Project for Education Research That Scales (PERTS) has a new opening available for a motivated statistical modeler. PERTS is an applied research center at Stanford University that partners with schools, colleges, and other organizations to improve student motivation and achievement on a large scale. In the process, PERTS conducts research that enables us to improve our programs and to expand what is known about academic motivation. The research data analyst will develop, implement, and maintain statistical reporting software for the College Transition Collaborative (see perts.net/ctc) and related educational research projects (see perts.net). These projects will advance our understanding of the ways that students’ learning mindsets (beliefs about school and their own abilities) influence their academic success and how brief, scalable interventions can improve academic performance by shifting these mindsets.

The duties include creating custom software and data collection pipelines and implementing existing third-party tools to retrieve, analyze, and process large datasets and metadata for integration into databases maintained by the projects. This individual will be an essential project member who must be able to learn and work independently, yet collaborate effectively with co-workers. Previous experience working in an academic environment is a plus. Knowledge of social and educational psychology is helpful but not necessary. The candidate will be expected to collaborate with the engineering and scientific staff in the specification, design, and implementation of processing and analysis pipelines. The work will take place in a dynamic environment where specifications often change rapidly in response to user demand, so the candidate must be able to be flexible in his or her software design and implementations. Compliance with all institutional and governmental health and safety regulations and policies is required.

Duties include:
- Conduct statistical analyses using a variety of techniques, including mixed-effects models, OLS models, structural equation models, clustering techniques, and machine learning approaches.
- Employ new and existing tools to create reports to reporting requirements defined by the project.
- Use reports and analyses to identify potentially problematic data, make corrections, and determine root causes for data problems from input or processing errors, and develop solutions.
- Develop reports, charts, graphs and tables for use by investigators and for publication and presentation.
- Analyze data processes in documentation.
- Provide documentation based on audit and reporting criteria.

Qualifications

EDUCATION & EXPERIENCE (REQUIRED):
- Bachelor's degree or a combination of education and relevant experience.
- Significant experience with quantitative analyses.

KNOWLEDGE, SKILLS AND ABILITIES (REQUIRED):
- Substantial experience with the R statistical language or a comparable analytic platform.
- Strong writing and analytical skills.
- Ability to prioritize workload.

KNOWLEDGE, SKILLS AND ABILITIES (DESIRED):
- Advanced degree (M.S. or higher) in Statistics, Computer Science, Mathematics, or a quantitative Social Science.
- Experience with modern source code version control systems (git).
- Experience with RMarkdown or a comparable statistical reporting tool.
PHYSICAL REQUIREMENTS:
- Sitting in place at computer for long periods of time with extensive keyboarding/dexterity.
- Occasionally use a telephone.
- Rarely writing by hand.

WORKING CONDITIONS:
- Some work may be performed in a laboratory or field setting.

WORK STANDARDS:
- Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations.
- Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for safety; communicates safety concerns; uses and promotes safe behaviors based on training and lessons learned.
- Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University’s Administrative Guide, http://adminguide.stanford.edu.

Location: San Francisco Bay Area
Schedule: Full-time
Classification Level: I

To apply for this position, send your resume and cover letter to contact@perts.net with the phrase “research data analyst” in the subject line.