RTG Postdoctoral Research Associate in Statistics and Applied Mathematics (JOB#11901)
Arizona State University
School of Mathematical and Statistical Sciences

The School of Mathematical and Statistical Sciences (SoMSS) at Arizona State University (ASU) invites applications for an entry-level non-tenure-track position at the rank of Postdoctoral Research Associate starting in the fall 2017 in association with our NSF-funded Research Training Group (RTG) in Applied Mathematics and Statistics. This full-time, benefits-eligible position is renewable on an annual basis for up to three academic years, contingent upon satisfactory performance, availability of resources, and the needs of the university. Applicants must be within five years of receipt of their PhD to be considered for initial appointment or subsequent annual renewal.

The goal of this RTG is to address the challenges of rigorous analysis of data, particularly with very large data sets, by integrating three crucial areas: (i) statistics, (ii) computational mathematics, and (iii) applied harmonic analysis. Examples of research questions to be addressed by the synergy of these disciplines include (but are certainly not limited to): 1) finding and analyzing efficient and adaptive data collection strategies in sequential experimental design, 2) reconstructing a signal or image from incomplete or noisy data sources, 3) devising measurement and other data collection strategies that optimize the value of the data in subsequent statistical tests or estimators, and 4) developing new computationally efficient mathematical and statistical models and procedures for exploring and analyzing very large data sets. More details are available in the NSF award abstract. Summer research support is provided for the first two summers of the appointment along with an allowance for professional travel.

The duties of this position involve research in an area of statistics and/or applied mathematics that is consistent with the goals of the RTG along with a teaching load that is two courses per year. Applicants are required to have a Ph.D. in the mathematical or statistical sciences, or in a closely related field, by August 10, 2017; and the potential for excellent teaching and research. Consistent with NSF’s eligibility guidelines for the RTG award, the successful candidate must be a citizen, national, or permanent resident of the United States by the time of appointment. The preferred qualifications include an established track record of research in applied mathematics, computational mathematics or statistics and an ability and willingness to learn from and collaborate with researchers in the other two areas.

SoMSS currently has 53 full-time tenured or tenure-track faculty members and approximately 90 supported Ph.D. students, along with an additional 40 Ph.D. students and 40 Masters students. The School offers bachelors, masters, and Ph.D. programs in statistics, applied mathematics, mathematics, mathematics education as well as an undergraduate program in actuarial science. SoMSS has excellent computing resources that include individual faculty workstations, several high-performance servers and a small cluster, as well as access to the University's central computing facilities and the High Performance Computing Initiative.

SoMSS has a strongly interdisciplinary research profile within the mathematical sciences that includes numerous collaborations inside and outside the university, such as in the biological, environmental, medical, physical and social sciences, education, and multiple areas of engineering. There are numerous opportunities for collaboration with interdisciplinary centers
and institutes, such as the Translational Genomics Research Institute (TGen), the Biodesign Institute (which includes centers specializing in the nanobiosciences, bioengineering, genomics, and vaccinology), the Institute for Social Science Research, the new College of Health Solutions, the Global Institute of Sustainability, and the nearby Mayo Clinic.

The Tempe campus of Arizona State University has approximately 60,000 students. It is located in the rapidly growing metropolitan Phoenix area, which provides a wide variety of recreational and cultural opportunities. The surrounding countryside is very attractive to outdoor enthusiasts who enjoy hiking, biking, skiing, and other activities in the exquisite Arizona canyon lands and mountainous terrain.

To apply, please submit the following through https://www.mathjobs.org/jobs/jobs/10052:

1) A cover letter that briefly explains the candidate’s interest in, and fit with, the position;
2) a curriculum vitae;
3) a personal statement addressing the candidate’s research program;
4) a statement of teaching experience and philosophy;
5) at least four letters of recommendation that must be submitted through mathjobs; one of these letters should address the candidate’s teaching qualifications

Review of applications will begin on March 10, 2017, and continue until the search is closed. A background check is required for employment.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.