

Postdoctoral Position in Numerical PDEs at Rice University

The Department of Computational and Applied Mathematics (CAAM) at Rice University in Houston, Texas, invites applications for a postdoctoral research associate position.

An ideal candidate will have experience in parallel programming and/or numerical partial differential equations. Experience in programming for GPU and many-core architectures is a plus. Key aspects of the research include developing a HPC high frequency Helmholtz solver for problems with heterogeneous media as seen in industrial seismic inversion problems. Ideally candidates will have an understanding of the numerical difficulties associated with robustly solving high frequency wave problems and/or the computational difficulties of developing HPC partial differential equation solvers. The project will involve collaboration on an industrial project.

Successful candidate will have received a PhD within 18 months preceding the date of appointment in Applied/Computational Mathematics, Computational Science and Engineering or a related field. Additionally the candidate should have a good background and record of accomplishment in one or more of the following areas: numerical PDEs, high performance computing, inverse problems or seismic inversion, and highly oscillatory waves.

Term of appointment will be two years with competitive salary and benefits and possibility of one additional year contingent upon availability of funding. The term of appointment will begin on or after April 1, 2017.

Qualified applicants should submit a detailed CV, a research statement describing their accomplishments and interests, and have three letters of recommendation sent directly to Prof. Adrianna Gillman, Adrianna.Gillman@rice.edu.

Rice University is a private research university with a long tradition of excellence in undergraduate and graduate science and engineering education. The Department of Computational and Applied Mathematics offers an outstanding research environment and hosts research programs in optimization, numerical linear algebra, control and inverse problems, mathematical biology, partial differential equations, and scientific computing. Interdisciplinary work is a fundamental aspect of the Department's program.

Equal Opportunity Employer: Females / Minorities / Veterans/ Disabled /
Sexual Orientation / Gender Identity.