

COMPUTATIONAL SCIENCE

A Multidisciplinary Hiring Initiative at LSU

CONNECTIONS: Universities depend on them. LSU strengthens its connections by encouraging communication between fields and actively recruiting the best in academia, industry, and government. Reflecting our strong tradition in interdisciplinary scholarship, we proudly introduce the Computational Science Multidisciplinary Hiring Initiative.

Computation joins theory and experiment as the third pillar of academic investigation and is crucial for solving today's complex problems in science, engineering and the humanities. Applying advanced computing capabilities to these problems requires advances across the computational sciences, in hardware, software, algorithms, visualization as well as the underlying application domains. This hiring initiative seeks visionary leaders in synergistic areas to put LSU at the forefront of advancing knowledge, educating students and serving the nation and the world in the application of computation to real world problems.

At least six exceptional tenured/tenure-track faculty will be hired. LSU is particularly interested in recruiting world leading faculty with existing groups and programs, as well as experienced young faculty able to advance their research through the computational science initiative. Departmental affiliations will be made as appropriate, although the Departments of Computer Science, Electrical and Computer Engineering, and Mathematics are expected to be the home departments for most hires.

Preference will be given to candidates who are committed to building interdisciplinary research programs that leverage and complement existing strengths and initiatives at LSU, including the:

- Center for Computation & Technology (CCT, <http://www.cct.lsu.edu>), an interdisciplinary research center for advancing computational sciences and computational technologies, already home to over 30 faculty working in areas directly related to this initiative
- Louisiana Optical Network Initiative (LONI, <http://www.loni.org>) that connects all major research institutions in Louisiana with high speed optical networks LONI and integrates 100 TFlops of compute power across the state. LONI is directly connected to the National Lambda Rail providing exceptional national and international connectivity
- LONI Institute (<http://institute.loni.org>) currently recruiting 12 new faculty and 6 new research scientists across the state in computational materials and computational biology
- TeraGrid, which LONI/LSU joins this year, and Blue Waters, the NSF's petascale computing facility to be deployed in 2011, in which LSU plays a key role for developing applications
- Ongoing Multidisciplinary Hiring Initiatives in Materials Science and Atlantic Studies as well as planned initiatives in Coastal Systems & Society, Digital Media, and Biology. Coordinated hires with these initiatives will be encouraged

We are particularly interested in candidates with a passion for innovation at the interface between information technologies and complex applications in distributed and high performance computing environments.

Fields of interest include, but are not limited to:

- Scientific visualization
- HPC architectures, components and systems
- Computational mathematics
- Middleware for applications, data, sensors, Grids
- Computational science applications in science, engineering, arts and the humanities

Candidates should possess an earned doctorate or equivalent in a discipline relevant to computational science. Candidates are invited to email their curriculum vitae, a statement of career objectives including a vision for this opportunity and a list of at least five professional references to:

Dr Gabrielle Allen

Chair, CS MHI Recruiting Committee

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