

Research Programmer
Beckman Institute for Advanced Science and Technology
University of Illinois at Urbana-Champaign

The Beckman Institute for Advanced Science and Technology at the University of Illinois at Urbana-Champaign seeks three (3) Research Programmers. The purpose of this position is to bolster the development of the biomolecular modeling, simulation, visualization, and analysis programs NAMD and VMD (further information about these programs can be obtained from the website of the Center for Macromolecular Modeling and Bioinformatics at www.ks.uiuc.edu). Duties and responsibilities include:

- Collaborate with users to identify and design needed features.
- Implement simulation, analysis, and visualization methods and algorithms.
- Improve performance (e.g., through tuning of the code and GPU-acceleration).
- Document, test, and debug new revisions of the software for release.
- Respond to questions and bug reports from users via email.
- Assist with workshops and other training activities.
- Contribute to publications and proposals.
- Perform related duties as assigned.

Requirements: A bachelor's degree in a physical or mathematical discipline, computer science, or relevant experience.

Preferred: Relevant training and/or experience in biomolecular simulation, biomolecular visualization, or other areas of scientific computing, software development and distribution, high-performance parallel or distributed computing. C and C++ programming, knowledge of OpenCL, Tcl, Python, MPI, and/or Charm++, excellent written and verbal communication skills, and the ability to work both independently and in close collaboration with researchers of various backgrounds are essential.

The Research Programmer position is a full-time, benefits-eligible Academic Professional position. Salary is commensurate with skills and experience, and candidates must have valid legal authorization to work in the United States by the starting date of the position. In order to ensure full consideration, applications must be received by November 26, 2012. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. The expected start date is as soon as possible after the closing date. Please create your candidate profile at <https://jobs.illinois.edu> and upload a detailed cover letter describing your relative experience as outlined in the duties and responsibilities as described above, resume, and the names, addresses, e-mail addresses, and phone numbers for three professional references on or before November 26, 2012. All requested information must be entered for your application to be considered. For further information, please contact Beckman Institute Human Resources at hr@beckman.illinois.edu.

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity.

www.inclusiveillinois.illinois.edu