

Research Programmer
Beckman Institute
University of Illinois at Urbana-Champaign

The Beckman Institute for Advanced Science and Technology seeks to fill a vacancy for a full-time Research Programmer to contribute to the implementation of neuronal visualization algorithms into the visualization and analysis program VMD (Visual Molecular Dynamics).

The University of Illinois is an Equal Opportunity, Affirmative Action employer that recruits and hires qualified candidates without regard to race, color, religion, sex, sexual orientation, gender identity, age, national origin, disability or veteran status. For more information, visit <http://go.illinois.edu/EEO>.

Major Duties and Responsibilities:

- Collaborate with users to identify and design needed features (30%)
- Implement visualization methods (20%)
- Improve performance through tuning and GPU acceleration (20%)
- Document, test and debug software for release (10%)
- Respond to questions and bug reports from users via email (5%)
- Assist with workshops and other training activities (5%)
- Contribute to publications and proposals (5%)
- Perform related duties as assigned (5%)

Required Qualifications:

- Bachelor's degree in a physical or mathematical discipline, computer science or relevant experience
- Relevant training and/or experience in biomolecular simulation or other scientific computing, software development and distribution and high performance parallel or distributed computing.

Preferred Qualifications:

- PhD
- Experience with scripting

Knowledge, Skills, and Abilities:

- C and C++ programming
- Knowledge of OpenCL, Tcl, Python, MPI and/or Charm++
- Demonstrate good written and verbal communication skills
- Ability to work both independently and in close collaboration with researchers of various backgrounds

The Research Programmer is a full-time, benefits-eligible Academic Professional position. Salary is commensurate with qualifications and experience. In order to ensure full consideration, application must be received by June 23, 2022. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after

that date. The expected start is as soon as possible after the closing date. To apply, please create your candidate profile at <http://jobs.illinois.edu> and upload your cover letter, resume, and names/contact information for three professional references as a single PDF file by June 10, 2022. 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.

University of Illinois faculty, staff and students are required to be fully vaccinated against COVID-19. If you are not able to receive the vaccine for medical or religious reasons, you may seek approval for an exemption in accordance with applicable University processes.

University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer. Convictions are not a bar to employment. As a qualifying federal contractor, the University of Illinois System [uses E-Verify](#) to verify [employment eligibility](#). The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit [Policy on Consideration of Sexual Misconduct in Prior Employment](#).

The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.