

Computational Genomics Fellow, Carl R. Woese Institute for Genomic Biology, University of Illinois Urbana-Champaign

The Carl R. Woese Institute for Genomic Biology (IGB) at the University of Illinois, Urbana-Champaign is looking for a postdoctoral fellow to spearhead innovative collaborative research at the intersection of computational science, genomics, and biology.

The IGB is a unique multidisciplinary institute with a broad research portfolio that tackles grand challenges in basic biology, agriculture, bioengineering, and human health from a genomics-based perspective. As a crucial component of its approach, the IGB continually monitors, adopts, and develops cutting-edge computation, in collaboration with expert faculty from diverse units across campus including the internationally recognized Grainger College of Engineering and Siebel School of Computing and Data Science.

The IGB is seeking to hire a dynamic Fellow to tap the enormous potential that lies in combining genomics and computation. Many open questions in the IGB's research portfolio can be informed by new computational methods being developed by other groups across the University. The IGB Computational Genomics Fellow will jump-start these cross-disciplinary projects.

Responsibilities include:

1. Monitoring relevant emerging trends in computation, genomics, and biotechnology, such as artificial intelligence, quantum computing, spatial transcriptomics, and biomanufacturing foundries;
2. Prototyping preliminary work in these new directions, for example by applying a new artificial intelligence method to a new biological problem;
3. Assisting in the development of collaborative grant proposals to fund this interdisciplinary work;
4. Managing and coordinating funded projects; and
5. Organizing working groups and initiatives to enrich the computational genomics ecosystem at the IGB.

The Fellow will gain in-depth experience in genomic data science, with the option of maintaining an individual research program, as well as broad scientific expertise, executive leadership, and institutional research strategy. The position is well suited for someone who has scientific training in engineering or the life sciences and wants to explore a career path in genomics research and in identifying opportunities, connecting teams, and fostering collaborations. This position can help scientists transition to careers in genomics, entrepreneurship, venture capital, science and technology policy, or academic scientific leadership.

The fellow will typically spend two or more years developing collaborative projects and will be mentored by the IGB's Director of Computational Genomics. The fellow will also routinely interact with theme leaders in the Center for Artificial Intelligence and Modeling research theme and Carver Biotech Center's High Performance Biological Computing group and other

campus entities. The successful candidate will be a part of the prestigious IGB Fellows Program and interact with other IGB fellows. The position will provide an annual starting salary of \$58,000 and associated standard university benefits including healthcare, vacation, and sick leave.

Candidates must hold a Ph.D. in any science, engineering, or quantitative discipline, work either independently or collaboratively, and demonstrate strong communications, management, technical writing, and organizational skills. Applicants should submit a resume or CV and the names of three recommenders who can write letters on their behalf. This information should be sent to Subha Srinivasan ssubha@illinois.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Visit www.igb.illinois.edu for additional information.