



Computational Research Scientist Positions
Center for Genomics and Systems Biology
NYU Abu Dhabi

Research Scientist positions in Bioinformatics and Computational Biology are available at New York University Abu Dhabi. The Center for Genomics and Systems Biology at NYU Abu Dhabi is currently inviting applications for multiple Bioinformatics Research Scientist and Bioinformatics Software Engineer positions. These personnel will form the nucleus of a new bioinformatics core group to support multiple large-scale projects in the new NYU Abu Dhabi Center for Genomics and Systems Biology as part of a larger NYUAD Research Institute initiative.

Candidates will be need to be highly motivated and will be expected to build computational pipelines that will support a broad research program that includes: chemical genomics, the systems biology of neurons, synthetic biology approaches to bioenergy, and investigations into the evolution of crop plants. Responsibilities associated with these diverse projects will be shared between members of a small bioinformatics team comprising staff scientists and will include:

- Analysis of high-throughput data, particularly sequence data generated through Illumina and semiconductor platforms.
- Building and maintaining databases and laboratory information management systems (LIMS) for high volume raw data from next generation sequencing and downstream analyses.
- Automation management of robotics platforms.
- Writing code to interact with liquid handling robotics and to interface this with LIMS.
- Building systems for the visualization of complex datasets and complex networks.
- Implementing and testing machine learning algorithms for gene function predictions and integrating this with the chemogenomics effort.
- Interfacing with professors, postdoctoral researchers, and students performing research in the Center.

Candidates for the Bioinformatics Research Scientist position are required to hold a PhD or have substantial research experience in bioinformatics. Successful candidates will be expected to manage several Bioinformatics Software Engineers and oversee coordination of activities with researchers throughout the Genomics and Systems Biology Center.

Candidates for the Bioinformatics Software Engineer positions must hold a degree in computer science and have relevant experience. Successful candidates are expected to have expertise in the following areas: relational databases, Perl or Python, Java, and bioinformatics tools commonly used in computational biology. Prior experience with next generation sequencing data is not required but is highly desirable. Candidates should provide links to coding samples and/or links to computational projects to which they have contributed.

New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing key global cities and idea capitals. The network has three foundational, degree-granting campuses: New York, Abu Dhabi, and Shanghai, complemented by a network of more than fifteen research and study-away sites across five continents. Faculty and students will circulate

within this global network in pursuit of common research interests, the promotion of cross-cultural understanding and solutions for problems, both local and global. In its second year, NYU Abu Dhabi has already recruited a cohort of faculty who are at once distinguished in their research and teaching. NYU Abu Dhabi's highly selective liberal arts enterprise is complemented by an Institute for Advanced Research, sponsoring cutting-edge projects across the arts, humanities, social sciences, sciences, and engineering.

The positions are open until filled. Applicants must submit a cover letter, curriculum vitae (including a list of publications), up to three representative publications, and the names and contact information of three references in PDF format to be considered (send these materials to NYUAD HR and cc bonneau@nyu.edu, kcg1@nyu.edu, ksa3@nyu.edu). Please visit our website at http://nyuad.nyu.edu/human_resources/open_positions.html for instructions and other information on how to apply. If you have any questions about the application process, please e-mail Deirdre.tabak@nyu.edu.

Starting date: September 1, 2012. Salary and benefits: competitive salary and benefits, including generous housing and home travel allowances, are offered.

NYU Abu Dhabi is an Equal Opportunity/Affirmative Action Employer.