

## Director, Computational Biology

NuMedii, Inc. is a venture-backed biomedical startup located in the San Francisco bay area that is translating life-sciences big data into effective new medicines for patients by combining big data, machine learning and systems biology. We seek a director of computational biology to join our team to continue to expand our foundational technology for drug discovery. This is an exciting opportunity to become an early employee of a unique company led by world-renowned expertise in computational science and translational medicine.

You will lead the computational analysis of NuMedii projects bringing together the diverse set of expertise among NuMedii's team members, implementing bleeding edge computational advances to support our core mission. You should be someone who is comfortable driving rapid, agile computational development in a high intensity and rapidly evolving startup environment. You must know how to coalesce and enthuse a team around the successful completion of project milestones gaining the maximum performance of the team. You must be creative, self-driven and an excellent communicator; fundamentally, you must be passionate about the potential to utilize big data to improve the process of drug discovery and development.

Key responsibilities include, but are not limited to:

- Leading teams to complete computational analysis for the identification of new drug-indication hypothesis
- Propose, evaluate the suitability of, and lead development of new bioinformatics algorithms and methods to enhance NuMedii's existing pipeline for drug-indication hypothesis. Incorporate new data types and evaluate their impact on the effective of the pipeline.
- Develop algorithms and analyze data as required to advance NuMedii's science.
- Work closely with other members of the team to architect, implement and maintain a computational infrastructure that efficiently executes complex queries across these datasets.
- Work closely with biological, translational and clinical scientists to design studies for experimental validation of in silico-derived predictions and assist with the analysis and interpretation of study results.

- Present the work and results to partners, and at conferences and workshops, and in the writing of grant proposals.

The ideal candidate will have broad expertise in bioinformatics and/or computational biology.

Specific requirements include:

- Experience leading scientific teams and demonstrated experience in unleashing maximum performance and creativity of team members
- Comfortable fostering an open and collaborative work environment
- Must be confident with hands-on data analysis and development of tools to address encountered issues.
- In-depth familiarity with computational and statistical methodologies for analysis of microarray, next generation sequencing, proteomic and metabolomics data is required.
  - Experience with the application of machine learning is highly desirable.
  - Specific expertise with the data and methodologies associated with the Library of Integrated Network-Based Cellular Signatures project is highly desirable.
  - Expertise in network biology, systems biology and systems pharmacology is highly desirable.
  - Experience in the identification of gene signatures for disease causation and integration of these with response signatures of disease modifying drugs is beneficial.
- Expertise in advanced computational biology methods such as systems biology and network analysis, machine learning and data mining tools.
- Proficiency in one or more programming languages e.g. C/C++, Java, Python, Perl in a Linux/UNIX environment. Proficiency in R for statistical analysis is also required.
- Familiarity with database management systems
- A working understanding of drug discovery and chemo-informatics technologies, drug knowledge databases, gene expression analysis, proteomics and analysis of human genetic variation is beneficial.
- Experience developing software in an enterprise environment including using source control tools and tracking activity using project management software.

- Must be authorized to work in the United States

An MS or PhD in Bioinformatics, Biomedical Informatics, Computational Biology, or Computer Science with experience in Bioinformatics are essential, and 5-8 years in the biotech or pharmaceutical industry are preferred. Excellent verbal and written communication and presentation skills in English are essential.

Please send your resume and a brief cover letter to [jobs@numedii.com](mailto:jobs@numedii.com). We offer a very competitive salary and benefits package. NuMedii values diversity and is an equal opportunity employer. Women and minority candidates are strongly encouraged to apply.

### **Notice to recruiters and agencies**

NuMedii prefers to recruit candidates directly, rather than through a third party recruiter or agency. Blinded CVs and resumes of qualified candidates will be reviewed and considered when submitted or presented to NuMedii by a recruiter or agency without a signed agreement. In this event, NuMedii explicitly reserves the right to pursue and hire those candidates without any financial obligation to the recruiter or agency.