

## BIOINFORMATICS ANALYST AT NATIONAL INSTITUTES OF HEALTH in BETHESDA, MARYLAND

The Division of Molecular & Cellular Biology (DMCB) in the Intramural program of the **National Institute of Child Health and Human Development** of the **National Institutes of Health** in Bethesda, Maryland, is looking for an exceptional candidate for **Bioinformatics Analyst** at the level of Research or Senior Research Fellow. This position affords the exciting opportunity to maximize biological insights obtained from genome- and proteome-wide analyses, including gene regulation (expression microarrays, RNA-seq, ChIP-seq; ribosome footprint profiling), regulation of transposon insertion, and analysis of proteins and their function, in microbial and mammalian cells. The DMCB includes molecular and microbial biologists, geneticists, and biochemists studying fundamental mechanisms of gene regulation, genome evolution, and cellular responses to external stimuli or pathogens: P.I.s include: Mary Dasso, Tom Dever, Alan Hinnebusch, Henry Levin, Jon Lorsch, Matthias Machner, Yun-bo Shi & Gigi Storz.

Requirements: Candidates should have a strong academic and (for more experienced applicants) professional track record, with a demonstrated proficiency in programming and statistical tools, and a firm foundation in biology. Bachelor's or Master's degree in Bioinformatics, Statistics, Computer Science, or a degree in Biological Sciences or Chemistry with formal training or notable experience in Bioinformatics and Statistics is required; post-doctoral experience working with large sequence datasets and statistical analysis is preferred. Significant experience with at least some of the following is required: statistical programming with MATLAB or R; computational methods, including experience with algorithm development, data analysis, and statistics; developing computational tools and software for bioinformatics applications. Beyond this, we seek an individual enthusiastic about a hands-on, data driven approach to research in an informal but rigorous environment. He/she should be an independent, innovative and analytical thinker with strong written and oral communication skills and the ability to work with individuals of varying levels of computing/statistics expertise.

### Characteristic Duties:

- Recommend optimum computational tools for testing hypotheses and reaching valid conclusions, and facilitate completion of computational analyses for ongoing projects.
- Conceive and implement statistical models.
- Improve computational methods and construct pipelines for data analysis
- Contribute to peer-reviewed research papers, oral presentations and posters, and informal discussion of research results, including the generation of well-designed figures and tables.
- Prepare datasets for publication and deposit in controlled-access databases.

Email a c.v. with contact information for 3 references to Alan Hinnebusch at [hinnebua@gmail.com](mailto:hinnebua@gmail.com) (subject line: Bioinformatics job). Reviewing of applications will commence on June 1, 2016.  
Keywords: Bioinformatics, Statistics, Machine Learning, Algorithm Development, MATLAB, R.



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of Child Health and Human Development