Senior Scientist; Molecular Targets Program, Center for Cancer Research, NCI

Description

Job Description – The National Cancer Institute (NCI), Center for Cancer Research (CCR), Molecular Targets Program (MTP) is seeking a Scientist in bioinformatics. The GS-13 position is located at the NCI at Frederick campus in Frederick, MD. The MTP is responsible for screening more than a million samples for activity against cancer-related molecular targets and cellular phenotypes. This effort generates large datasets of diverse scientific observations that need to be organized, analyzed, and interpreted to guide further research progress. The position will integrate multiple aspects of bio- and chemo-informatics to enable and enhance the discovery and characterization of bioactive moieties that perturb targets and pathways associated with cancer. For more information on the MTP visit https://ccr.cancer.gov/molecular-targets-program/.

Responsibilities – The Scientist will be responsible for application of advanced IT principles, concepts, adaptive database architecture, methods, standards and practices sufficient to provide expert technical advice, guidance and recommendations to MTP personnel and other technical specialists on mission critical IT issues; develop new technologies for visualization, interpretation and organization of large scale scientific data; and make decisions and/or recommendations on MTP bioinformatic initiatives. The successful applicant will interface with and potentially supervise MTP programming and informatics personnel as well as collaborate broadly within the MTP to efficiently support the MTP scientific process. The successful individual will be expected to learn from and contribute to NCI bioinformatics initiatives for harmonization of MTP efforts with broader NCI goals and priorities.

Qualifications – Computational biology skills desired include visualization, mapping, linkage, and interaction analysis for large data sets to facilitate understanding of biological activity across different assays and target identification strategies. First-hand experience in the analysis of large, complex data sets of varied biological data such as those derived from protein interaction networks, chemical genomics and microarrays as well as next generation sequencing and RNAseq would be particularly desirable. Capabilities in computational chemistry including chemical structure analysis and analytical measures of aggregate chemical library diversity will also be within the scope of work of the successful applicant. Thus, experience in organization of chemical structure, NMR, and mass spectrometry data into searchable database formats, for structure-activity-relationship studies would be useful as would experience in making such tools available in a web-based format.This position requires expertise in utilization of applications software design principles and methods and relational database architecture including proficiency in common programming languages and specific (statistical) environments (e.g. R,

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Python, SQL, JAVA, Perl, Matlab, SAS, Tibco Spotfire). Skill in applying new software technologies sufficient to investigate, evaluate and select tools for improving productivity in the MTP is also required.

Contact – John Beutler, beutlerj@mail.nih.gov

Comments – NCI is part of the National Institutes of Health (NIH) in the Department of Health and Human Services (DHHS), a federal government agency. The CCR is the largest component of the intramural biomedical research effort at NIH and is a major user of the NIH Clinical Research Center, a state-of-the-art research hospital on the Bethesda, Maryland campus. The CCR offers a tremendous depth and breadth of intellectual and technological resources, as well as opportunities for collaboration with investigators both within and outside of the NIH. The research environment is highly conducive to advancing translational research and highly collaborative, emphasizing multidisciplinary and interdisciplinary team science. For an overview of the CCR, please visit http://ccr.cancer.gov/.HHS, NIH, and NCI are Equal Opportunity Employers. The NIH and NCI are dedicated to building a diverse community in its training and employment programs and encourages the application and nomination of qualified women, minorities, and individuals with disabilities.

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Contacts

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