Director, Bioinformatics – Norwalk, CT

Job Summary

The Multiple Myeloma Research Foundation is seeking a talented, self-motivated Bioinformatics or Healthcare Informatics expert to participate in leading edge research in translational Informatics as a member of our group. The successful applicant will have formal training in bio- or healthcare Informatics with outstanding project management skills. They will be part of an interdisciplinary team that designs and prototypes computational tools that improve the detection and interpretation of disease-relevant variants, which ultimately leads to better therapeutic options in a personalized medicine context. A key responsibility of this position will be exploring and promoting novel Informatics methodologies into clinical practice. As an example, this may include the integration and standardization of large genomic datasets, means to bridge disparate data sets (eg: EHR/EMR, Genomic, Claims, etc) and the application of machine learning and statistical techniques to enable decision-making. In addition, the role will have responsibilities to lead major portfolio(s) of Informatics work, standing up entire systems while working in the context of a matrixed team.

Duties and Responsibilities

- Apply state-of-the-art computational methods to analyze large-scale whole genome and exome sequence data to support data analysis in genetic studies a plus.
- Architect means of integrating or connecting disparate data sets that are linked
- Improve robust and highly automated computational pipelines
- Create, curate, manipulate and perform analytics on connected data sets that include EHR/EMR, genomics, proteomic, patient reported outcomes and medical insurance (claims) data.
- Lead a research project(s) in either human genetics or Bioinformatics method development.
- Analyze EHR/EMR-based data sets, with an ability to create and work with patient cohorts
- A working knowledge of standardized terminology and vocabularies such as ICD-10, SNOMed, MEDDRA, and RxNorm
- Architect/design data visualization tools for use by patients, clinicians and researchers
- Maintain, extend, update RNAseq, DNA, EHR and/or other bioinformatic pipelines
- Identify and validate innovative approaches to improve the quality and efficiency of the processing and analysis of -omics data (a plus)
- Maintain current awareness of emerging approaches and methods in computational biology

Qualifications
Required Qualifications

- Minimum of 8 years demonstrated experience working with big data; high-throughput sequencing data, EHR/EMR data analysis or method development
- A working understanding of standardized vocabularies (as noted above)

- Prior experience working in a life science, academic medical center environment, or a health plan Informatics group.
- Strong project management skills – PMI Certification strongly preferred (but not required) – if not PMI certified, evidence of successfully leading large, complex projects to delivery, on time and on budget
- Ability to build and foster solid relationships both internally and externally; a team player
- Strong creative thinking and problem-solving skills
- Excellent verbal and written communication skills; the ability to interface effectively with scientists and clinicians to communicate/discuss results and ideas.
- Google Cloud (and/or AWS) experience a plus
- Strong experimental design (prototyping) abilities
- Excellent presentation skills

Desirable Qualifications

- Knowledge of genomic data repositories relevant to clinical genetics
- Strong working knowledge of scripting in a Unix environment,
- Programming fluency with at least one general-purpose programming language (such as Python, Perl or Swift, MySQL and one language for scientific computing (such as R or MATLAB).
- Knowledge of various Informatics techniques that may extend to (but not limited to) population health, clinical data cohort generation and use, quality initiatives, genetics, and molecular biology a plus
- Desire to stay on the leading edge of discoveries in the field of personalized medicine

Educational Requirements

- Minimal requirement: Master's in Bioinformatics, Biostatistics, Computational Biology, or related disciplines; PhD a plus.
- Alternatively, MD with clinical/healthcare Informatics degree or post-doctoral fellowship
- Formal Informatics training in healthcare/life sciences.
- Graduate NLM-sponsored Informatics program desirable