Clinical Bioinformatics Informationist
Samuel J. Wood Library and C.V. Starr Biomedical Information Center
Weill Cornell Medicine

Job description:

We are seeking an enthusiastic and experienced candidate to provide clinical bioinformatics training and analytical support to faculty, staff and students, at the Samuel J. Wood Library and the C.V. Starr Biomedical Information Center, in New York City.

The Samuel J. Wood Library and the C.V. Starr Biomedical Information Center has been the traditional information hub of Weill Cornell Medicine (WCM), as well as providing clinical information services to NewYork-Presbyterian Hospital. The library bioinformatics service (LBS) provides training and analytical support to faculty, staff and students in research bioinformatics. Under the direction of the Associate Director for Research Services, the Clinical Bioinformatics Informationist will be responsible for expanding the clinical bioinformatics support offered by the LBS to inform healthcare practice.

Specifically, this individual will serve as a subject matter expert in clinical genomics to provide the following <u>essential duties and responsibilities</u>:

- Providing consulting services for the WCM community in bioinformatics research and clinical application. This may include assisting with data retrieval, statistical analysis, and reporting for scientific publications and presentations. It may also include collaboratively developing analysis pipelines to assist in interpretation and understanding of genomics data.
- Assisting with the development and teaching of workshops on bioinformatics analysis, databases, and data management, including teaching Data Carpentry workshops. Furthermore, the individual will create bioinformatics training material to meet the research and clinical needs of WCM.
- Providing recommendations for the curation and analysis of a precision medicine oncology knowledgebase. The individual will collaborate with the Precision Medicine Initiative team to identify and implement optimal data-management solutions within the given constraints, such as time and budget.
- Developing data curation and workflow methodologies for using clinical data within the WCM Data Core – a secure cloud-based computational environment for analysis of ePHI.

The incumbent will serve as a member of the Samuel J. Wood Library research team, reporting to the Associate Director for Research Services. This individual will assist the Library Director, the Associate Director for Research Services, and other Information Technologies & Services (ITS) leaders, in strategic planning and execution of data management policies associated with curation, storage and re-use of clinical research data. This individual will also be encouraged to collaborate with other Weill Cornell thought leaders in health informatics, including the Sandra and Edward Meyer Cancer Center, and the Englander Institute for Precision Medicine.

It is expected that this individual will actively work towards publication in peer-reviewed journals, and continue their professional growth and development through participation in educational programs, review of the literature, and attending meetings and workshops.

Requirements:
- Masters or PhD in bioinformatics or computer science (or related scientific field)
- Demonstrated excellence in genomics computational skills
- Proven understanding and experience in clinical genomics, experimental data processing, high-throughput data analysis, and genomic databases
- At least two years of clinical research experience
- Publication and presentation history commensurate with academic level
- Demonstrated excellence in teaching bioinformatics and/or data science
- Demonstrable skill with Python and/or R, open source tools, libraries, and relational databases

Work Ethic and Cultural Fit
- Excellent communication and collaboration skills. Capable of working in a fast-paced, team-based environment with shared deadlines and project tasks
- Self-motivated, and demonstrates strong initiative and ability to work independently as well as with others
- Demonstrates flexibility and calmness in stressful situations
- Possesses superior skills in problem identification, analysis, and resolution; is a systems thinker
- Ability to work efficiently on multiple projects simultaneously and meet necessary deadlines successfully
- Ability to anticipate needs and problems while creating solutions

Highly Desired:
- Experience with bioinformatics analyses in the context of precision medicine
- Experience in applying the FAIR framework to data management
- Knowledge of and experience with semantic technologies
- Data visualization skills
- High performance computing experience, including job submission and management, and parallel programming libraries and frameworks
- Experience with programming languages (Java, C/C++/C#)
- Wet-lab experience in areas such as cell culture, western/northern blots, flow cytometry, proteomics, qPCR

Working Conditions:
Position requires working in an office environment where there are a few physical discomforts such as dust, dirt, noise and the like. Ability to work more than 40 hours a week, off-hours and weekends during periods of heavy workload is required. Light travel between office locations, primarily within Manhattan is required. Occasional meetings or clinical staff interactions in typical patient care areas may be required, though direct patient exposure is not anticipated.

Privacy Notice:
This position could have exposure and/or access to Protected Health Information (PHI) or Personally Identifiable Information (PII) as part of normal duties. Access to data within systems that contain significant portions of confidential staff or even medical records may be necessary for completion of daily tasks.

With regard to HIPAA and protection of employee, student subject and patient privacy, it is the responsibility of each WCM employee to limit viewing of PHI or PII to the minimum as necessary to perform assigned duties.

To Apply: Please email cover letter and curriculum vitae to librecruiting@med.cornell.edu with "Clinical Bioinformatics Informationist" included in the subject line.

Founded in 1898, and affiliated with what is now New York-Presbyterian Hospital since 1927, Weill Cornell Medical College is among the top-ranked clinical and medical research centers in the country. In addition to offering degrees in medicine, Cornell also has Ph.D. programs in biomedical research and education at the Weill Graduate School of Medical Sciences, and with neighboring Rockefeller University and the Sloan Kettering Institute, has established a joint MD-PhD. program for students to intensify their pursuit of Cornell's triple mission of education, research, and patient care. Weill Cornell Medical College's educational mission emphasizes the importance of combining a strong foundation in the medical sciences with extensive clinical training in patient care. By promoting a true social commitment, stimulating creativity, and fostering independent thought and study, Weill Cornell Medical College continues to cultivate the best of tomorrow's leaders in the field of medicine.

Weill Cornell Medical College is an equal opportunity, affirmative action educator and employer.

We look forward to hearing from you.