Job tile: Postdoctoral Position in the Department of Biomedical Informatics at Harvard Medical School

Description

The Department of Biomedical Informatics (DBMI) at Harvard Medical School is looking for a Postdoc to help build cutting edge research platforms. We seek an individual to work on our multidisciplinary team of data scientists, medical doctors, and developers. Our team studies large and disparate datasets from the domains of biology, healthcare and social media. The goal of our efforts is to transform healthcare and research to usher in a new age of individualized data driven medicine.

For this project we are working with the federal government and several disease registries to create an "Information Commons" where researchers can go to browse and analyze data. The Research Associate will provide the team with their expert knowledge of storing, analyzing and displaying biomedical data. They will work with the internal team and experts from the disease registries to map existing data into mutually agreed on Ontologies. As the project progresses the incumbent will have an opportunity to conduct novel research on the datasets integrated in this platform.

Specific responsibilities for this position include

- Work with Disease Registries and internal data loaders to process raw data into our analytical data warehouse. This involves mapping the source data onto existing or novel ontologies using biomedical domain knowledge.
- Utilize an existing ETL pipeline to process and load data from different clinical and computational sources.
- Where required, assist in the development of enhancements to the pipeline to satisfy requirements for new data types.
- Create reports and presentations to explain status of project milestones.
- Work on publications related to the creation of our infrastructure as well as novel data analysis.

Basic: PhD degree (or MD/PhD.) in biomedical informatics, bioinformatics, Computational Biology, computer science, or a related field; Curriculum in and/or experience with clinically derived or patient reported data; Experience in programming and software development; Proficiency with relational databases systems and database programming; Proficiency in scripting languages and statistical tools like Perl/Python/R/Others;

Additional: Self-motivated and highly detail oriented; Strong technical/systems design and development skills; Strong problem solving, testing, and debugging skills; Solid understanding of research data system implementation best practices and appropriate use of design pattern; Excellent verbal and written communication skills.

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.
Women and minorities are especially encouraged to apply.

How to apply:
Email applications to: Paul_Avillach@hms.harvard.edu including:
Curriculum Vitæ
Summary statement of personal objective and research interests
PDFs of the best three papers

For additional information contact:
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