**Software Developer – Huttenhower Lab, Harvard School of Public Health**

**Description:**

The Huttenhower Lab in the Department of Biostatistics at the Harvard School of Public Health (<http://huttenhower.sph.harvard.edu>) is seeking a full-time Software Developer. The successful candidate will be responsible for programming and scientific software development for a series of funded, large-scale collaborative projects, focusing on maintaining and extending the bioBakery software suite. This includes the design, implementation, and maintenance of research computing infrastructure for microbial genome processing, gene cataloging, and metagenome and metatranscriptome analysis. Responsibilities include primary software development, maintenance of the lab’s development infrastructure, software packaging, dissemination, documentation, and maintenance. The incumbent will be an integral member of our group, working alongside postdocs and students as well as with collaborators and established software development teams. Our interdisciplinary team represents a convergence of bioinformatics, biostatistics, computer science, software development, and modern molecular biology.

Projects from our portfolio:

* The bioBakery environment for microbial community analysis (http://huttenhower.sph.harvard.edu/biobakery).
* The BIOM-Mass microbiome data dissemination portal (https://biom-mass.org)
* Deployment, documentation, and support of individual tools for metagenome, metatranscriptome, and multi-omic microbial community data handling (http://huttenhower.sph.harvard.edu/tutorials).
* Implementation of newly developed microbiome analysis methods, particularly as Python applications, R packages, and/or Galaxy modules.

Qualifications**:**

* Ph.D. degree in Computer Science, Bioinformatics, or related disciplines.
* Proficiency with Linux command line environment, grid and cloud computing, build systems, and revision control (git/GitHub).
* Strong programming and software development skills are a must; Python and R required.
* Basic web development (Javascript) a plus; knowledge of React/Redux, Nodejs, npm, and/or GraphQL are beneficial.
* Knowledge of cloud computing (GCE / AWS) and high-performance computing (SLURM).
* At least 1-3 years experience in open-source or commercial software development strongly preferred.
* Experience in software testing (CI/CD).
* Prior experience with molecular biology, bioinformatics, and/or genomics is beneficial but not required.

Personal qualifications:

* Strong work ethic and good time management skills.
* Flexibility in adapting to changing research needs.
* Excellent communication skills.
* Self-starter and resourceful.
* Ability to work independently combined with willingness to work in an interactive, collegial and interdisciplinary group.

The successful candidate will work with the extended Huttenhower Lab as part of a diverse research team with interests in the human microbiome, computational metagenomics, and scalable genomic data mining.

**Application package:**

Please submit a cover letter (including a brief statement of interest), resume, and contact information for at least 3 references to Xochitl Morgan xmorgan@hsph.harvard.edu and Nicole Levesque levesque@hsph.harvard.edu. Applicant review will begin immediately and continue until the position is filled. The Harvard University T.H. Chan School of Public Health is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

**Additional Information:**

Depending on circumstance, remote work is possible but not preferred.

Harvard offers an outstanding benefits package including:

Time Off: 3-4 weeks paid vacation, paid holiday break, 12 paid sick days, 11.5 paid holidays, and 3 paid personal days per year.

Medical/Dental/Vision: We offer a variety of excellent medical, dental, and vision plans; all coverage begins as of start date.

Retirement: University-funded retirement plan with full vesting after 3 years of service.

Tuition Assistant Program: Competitive tuition assistance program, $40 per class at the Harvard Extension School and discounted options through participating Harvard grad schools.

Transportation: Harvard offers a 50% discounted MBTA pass as well as additional options to assist employees in their daily commute.

Wellness: Harvard provides access to athletic facilities, libraries, campus events and many discounts throughout metro Boston. Additional programs and classes are offered at little or no cost, including stress management, massages, nutrition, meditation, and complimentary health services.