Job Title Software Engineer

Department Computational Biology Program

Location RJH 4527

**Work Unit Description**

The Computational Biology Program at Oregon Health and Science University (OHSU), Portland, OR is committed to leading the development of next-generation patient care through discoveries made by big data analytics, enabled by values of open access data, open source code, highly collaborative team science, and professional software engineering methodologies.

Work Schedule, Hours, FTE, Salary Range

\*\*\*\*This is a Research Position\*\*\*\*

8:00 am – 5:00 pm; 1.0 FTE; Salary commensurate with experience; Location: Marquam Hill

**Functions/Duties of Position**

Critical to achieving this mission, as a software developer, you will specialize in genomic, imaging, and clinical analysis applications, leveraging your talents to change the world in the fight against disease. You are: passionate about open-source software and transparent sharing of information, enthusiastic about working in a team that finds quantitative insights in complex data and develops interactive tools to enable clinicians and researchers to understand cancer, experienced in thinking analytically and developing software tool and an organized self-starter who enjoys creative freedom in solving computational challenges.

**Responsibilities:**

Develop and extend analytics and data management applications to facilitate management and analysis of genomics, clinical, and imaging data.

Establish and maintain standards for structured software & systems engineering, including requirements, design, code, test, quality, configuration & release management and project management.

Provide documentation and user support allowing computational researchers across campus to access and re-use analysis tools.

Maintain well-curated, highly structured, transparent omics, imaging, or clinical data resources. Develop tools to integrate commonly used open source bioinformatics software applications.

Participate in leading international efforts aimed at establishing best practices and standards for genomic data representation and analysis.

**Required:**

Master’s degree with major courses in relevant field and 3 years of relevant experience OR bachelors' degree with major courses in field of research (or RN or allied health professional) plus current ACRP or SoCRA certification and 3 years of relevant experience OR bachelor’s degree with major courses in field of research and 7 years of relevant experience.

Minimum 4 years full time development experience.

Advanced skills in multiple high level programming languages, preferably Python, JavaScript, Java, Scala, or R.

Experience in professional software development techniques. Bug and issue tracking systems.

Distributed source code management systems.

Strong ability to initiate and collaboratively drive projects as a dedicated and passionate member of a diverse non-hierarchical team.

Critical thinker, with willingness and ability to learn new subject areas.

Ability to effectively translate and convey expertise across domains.

Excellent communication, analytical and organizational skills, both written and verbal.

Collaborative approach to resolving problems.

**Preferred:**

7+ years full-time development experience.

Computing experience in a Unix/Linux environment.

Experience in a professional, team-oriented software development environment.

A passion for developing web services for science applications, including: Distributed workflow execution and data processing, UI design for data exploration and visualization, Hands-on DevOps experience for scientific computing environments.

**POSTING 2**

To Apply:  
To apply and for more details, go to "Find a Job" at the OHSU Jobs site (<https://ais.ohsu.edu/OA_HTML/IrcVisitor.jsp>) and search for job posting ID: IRC50158. Please include a cover letter and resume with your application.

Oregon Health & Science University , Portland, Oregon

Position Description:  
We are looking for an experienced full-stack software engineer to help develop software systems that assist scientific research at Oregon Health and Science University (OHSU). Specifically, we are looking for a software developer to help design, implement, and support a platform that manages the clinical and scientific information associated with clinical trials for cancer treatment.

Requirements:

Software Development

* Client Side: JavaScript, JQuery, Angular, HTML5, CSS3
* Server-side: Java, C#, and/or Python
* Database Design/Data Modeling
* Object-oriented design
* JavaScript frameworks such as ReactJS, AngularJS or EmberJS
* Unix command line and shell scripting
* Database: SQL

Process and tools

* Agile Software Development Methodology
* Source Control tools: Git and/or Subversion
* Integration and Release tools: ANT

Education, Experience, and Abilities

* Bachelor Degree in Computer Science or related field and/or 5-years hands-on software development experience.
* Ability to break down complex problems into component parts
* Communicates effectively with both developers and non-technical personnel

Nice to Have

* Familiarity with biological or other relevant science, especially cancer research.
* Programming in R and/or MatLab including plotting and image processing
* JavaScript plotting packages such as D3, C3, Plotly.js, etc.
* Familiarity with Scientific Data Management
* Familiarity with Data Security Requirements, such as HIPAA