

## **Partners HealthCare System, Inc.**

**Job Title:** Application Developer

**Employment Type:** Fulltime

### **General Overview Statement**

Harvard Medical School and Partners HealthCare founded the center in 2001, to promote Genetics and Genomics in research and clinical medicine. (HPCGG laboratories include Proteomics, Expression Profiling, Genotyping, Sequencing, and Clinical Molecular Diagnostics.) This position is with the Information Technology team that designs and builds software and databases to support the work of the center including integration of molecular diagnostic data into a patient's electronic medical record and the support of clinical researchers focused on driving genetic and genomic based discoveries. The HPCGG's IT team received an international award from BioIT World and a Partners in Excellence Award from Partners HealthCare. This position can serve as a foundation for an exciting career in the emerging field of Personalized Medicine IT.

The candidate will work under the guidance of Information Systems Management Team - this team develops new LIMS software (laboratory information management systems) in the scientific laboratory environment and applications interfacing between clinical researchers and the Center's laboratories. Work assignments may include specific tasks, project related activities and small projects.

This position will initially focus on the data management pipeline that supports new, next generation DNA sequencing equipment. The incumbent will be responsible for operating this pipeline while at the same time developing the software required to fully automate its functions. Additional responsibilities will be assigned as these tasks are completed. The candidate will perform as a key member of the team responsible for maintaining the HPCGG's IT software and hardware infrastructure. The current software code base is large - 250K lines of manually maintained code and over 1 million lines of automatically generated code - so the ability to understand and opportunistically contribute to the continuous re-factoring of a code base of this size is critical.

Good communication, interpersonal, and organization skills are critical within this small, dynamic team; the ability to understand and effectively communicate technical concepts and designs to be developed are also essential to interface with elements of the remote development team as well as others within the larger research collaborative environment (within Partners, other research organizations, and at a national level) that the Center participates in.

### **Principal Duties and Responsibilities**

Required:

- Bachelors Degree Required
- 5-10 years in information technology with at least 5 years developing web applications
- An ability to troubleshoot in an environment that involves many moving parts is also important
- Experience with Java, J2EE and EJB (2.x or 3)
- Experience scripting in a high level language such as python (preferred) or perl
- Ability to troubleshoot perl scripts
- Experience with the process of developing code for and releasing code into a mission critical environment
- Working knowledge of a Unix environment
- Long-term legal rights to work in the United States required (difficult to support H1 visa).

Any of the following would be a plus:

- Domain experience in genomics or patient care
- Understanding of .Net architectures
- Familiarity with HIPAA / 21 CFR Part 11
- Knowledge of laboratory processes
- Knowledge of clinical processes / clinical systems
- Knowledge of:
  - o Struts (1 or 2)
  - o [Javascript](#)
  - o Eclipse / MyEclipse
  - o Ant
  - o Hibernate / JPA
  - o Web Services (ws-\*)
- Understanding of HL7
- Ability to troubleshoot across a physically distributed architecture that includes
  - o Apache
  - o JBoss and Tomcat
  - o LDAP / ActiveDirectory / Kerberos
  - o Oracle
  - o Red Hat

We are a results focused group looking for a detail-oriented person with a good work ethic, strong communication skills, skilled in problem solving, and interested in participating in the role described above.

Contact:

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