**Position:** Senior Research Software Developer

**Department:** INFORMATION SCIENCES

**Reports To:** John S. Kaddis, Ph.D. ([jkaddis@coh.org](mailto:jkaddis@coh.org))

**Union & Range:** NON-UNION, GR 245

**FLSA Status:** EXEMPT

**Department #:** 802700.20

**Summary**

The Senior Research Software Developer will work to support investigators all over the world addressing key immunological, histological, viral, and metabolic questions related to how type 1 diabetes (T1D) develops (see [www.jdrfnpod.org](http://www.jdrfnpod.org)). The primary role of the applicant will be in the development and maintenance of state-of-the-art web applications, implemented using the LabKey Server Platform (see [www.labkey.com](http://www.labkey.com)), to address data and biospecimen sharing, management, and analytical challenges. Responsibilities include writing source code, making builds, identifying, tracking, and fixing bugs, writing and following specifications. Applicant is expected to work collaboratively with scientists, developers, and others focused on preventing and curing T1D.

Position is part time through 2014; future year(s) funding to be determined. Telecommuting work option available.

**Key Duties**

* Convert user needs into specifications by working collaboratively with others
* Develop, maintain, and modify source code (JAVA based), including the proposal of new solutions
* Compile source code; bug identification, tracking, and fixing
* Establish manual procedures and create automated testing routines to ensure system stability
* Create custom reports, queries, and visualizations using client or server-side APIs
* Communicate clearly and work well with others in a multi-disciplinary team with both local and remote team members
* Follows established City of Hope and department policies, procedures, objectives, performance improvement, attendance, safety, environmental, and infection control guidelines. Practices a high level of integrity and honesty, maintains confidentiality.

**Qualifications**

* Bachelor’s degree (Masters or higher preferred) in Computer Science, Information Systems, or a related field of study required, with 3+ years of experience.
* Strong familiarity with LabKey Server and module development a major plus
* Experience with
  + JAVA, JavaScript (JQuery) essential
  + Apache Ant, Subversion (SVN) , Tomcat
  + SAS, R, Python, Perl, CSS, AJAX, HTML, J2E/JEE
* Setup and maintenance of Web Services (e.g. Amazon Web Services)
* Familiarity with relational database management systems (SQLServer, PostgreSQL)
* Knowledge of various OS, including Windows, Mac, Linux (Ubuntu, CentOS), and Unix
* Understanding of the following desirable, but not required
  + Apache Hadoop, Hive, MapReduce Jobs
  + Content Management Systems (e.g. Drupal, Joomla, Wordpress)
  + Unit testing and continuous integration
  + IIS/Windows Server administration
  + Service Oriented Architecture, e.g. WCF Data Services(OData)