

Position Announcement

Programmer Analysts I and II

Center for Computational Biology
Laboratory of Neuro Imaging
David Geffen School of Medicine at UCLA
635 Charles Young Dr., Suite 225
Los Angeles, CA 90095
<http://www.loni.ucla.edu/>

Programmer Analyst Job Description (up to 3 positions):

The Center for Computational Biology (CCB) and the Laboratory of Neuro Imaging (LONI) are leaders in the fields of computational neuroscience, image computing and bioinformatics. The major foci of our national and international collaborations are to develop multi-resolution, multi-modal and multi-scale computational brain atlases and models of brain structure and function. Our Informatics Core consists of a multidisciplinary imaging experts, bioinformaticians and programmers responsible for the research and development of software in the areas of multi-dimensional image visualization, image processing and analysis, distributed storage, information and database management, and content-based retrieval of research results.

We are looking for bright and enthusiastic research-oriented programmers with MS degrees in Computer Science and demonstrated experience with Java, J2EE, C/C++, HTML and database development. You will work closely within our multidisciplinary research team in developing new software tools that support scientific visualization and data analysis.

Responsibilities:

A. Application Design/Development

1. Analyze the software needs and requirements of the Center and design, implement and deploy appropriate solutions.
2. Perform conceptual applications design and/or prototype system solutions, working both independently and as part of project teams.

3. Coordinate data processing and software needs of multiple projects.
4. Specify, create and design Graphical User Interfaces.
5. Integrate Laboratory and Center tools into more functional and useful environments.
6. Develop meta-algorithms for data processing and analysis

B. Application Debugging, Optimization, Documentation, and Support

1. Debug existing and future laboratory software applications.
2. Analyze and optimize code through improved resource management, multithreading/parallelization, structure modification.
3. Provide software support to researchers, other programmers, and administrative staff of the laboratory.
4. Client-Server and native method invocation.

C. Software management

1. CVS management.
2. General hardware and software support of the Laboratory and the Center.

D. Shell Scripting

1. Write shell scripts in CSH, BSH, KSH, and DOS that facilitate daily laboratory operations.
2. Provide shell scripts for task automation.
3. Provide shell scripts that simplify command line usage/execution.

Requirements:

- Masters degree or equivalent in computer science.
- Minimum 2 years industry experience with Java and C++ development.
- Knowledge of UNIX, LINUX, Mac and PC.
- Excellent team or independent environment working skills.
- Excellent background in mathematics, statistics, software design, code distribution and image processing.
- Excellent analytical skills and the ability to quickly gain an understanding of complex systems and tools.
- Strong written and verbal communication.

To apply:

Please send your resume to applications@loni.ucla.edu. Follow this link to [upload your resume online](#). Include a cover letter describing your relevant expertise and research interests with your resume as well as other materials that may help us better understand your objectives in your job search and why LONI/CCB might be the place for you. Principals only please.