Job Description

The Cyberinfrastructure for Network Science Center (http://cns.slis.indiana.edu) at Indiana University, Bloomington offers independent study/intern position to investigate, integrate, and implement an automated testing framework for the CShell framework (http://cishell.org). The framework will be used in the Network Workbench (NWB) (http://nwb.slis.indiana.edu) and Epidemics Cyberinfrastructure (EpiC) (http://epic.slis.indiana.edu) projects.

The prospective candidate will have a unique opportunity to
1. Investigate and evaluate state-of-the-art OSGi/Eclipse based testing frameworks/tools covering unit tests, system tests, integration tests, and regression tests.
2. Choose one of the best testing framework/tool and integrate it into the existing CShell framework and build system.
3. Define a set of unit and integration testing cases and implement them for the NWB and EpiC projects.

The prospective candidate will be responsible for developing a testing strategy which fits well with the existing framework and project needs and is flexible enough to be expanded upon.

Qualifications

• Undergraduate or graduate student in Computer Science, Informatics, Information Science, or a related technical discipline
• At least two years of experience in Java programming and Ant scripts
• Solid knowledge of object-oriented design
• Understands basic software testing practices and has experience with Java testing tools, such as JUnit
• Enjoys the iterative process of uncovering bugs, and producing high-quality software
• Familiarity with the Eclipse development environment
• Knowledge of Eclipse, Eclipse RCP, Equinox, and OSGi is desirable

How to Apply

Send a cover letter and resume to Bonnie Huang, huangb@indiana.edu.