

JOIN the cyberinfrastructure for NETWORK SCIENCE CENTER

SLIS, INDIANA UNIVERSITY, BLOOMINGTON

Independent Study/Internship

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 CIShell 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 CIShell 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.

