Student Web Application Programmer

The Department of Soil Science is looking for a student web application programmer to update the Virtual Museum of Minerals and Molecules. The position will offer flexible, part-time hours from hire through the fall semester with a pay scale of $12-$18/hr, depending upon qualifications.

Scope

The Virtual Museum of Minerals and Molecules (VMMM) provides web-based, interactive 3D displays of atomic structure using HTML code and Jmol, a Java applet. A change in security measures present in recent Java releases has forced the need to upgrade the VMMM codebase and use a signed applet with the latest release of Jmol v14, instead of the unsigned applet in Jmol v10. Once the VMMM web application is fully functional using a signed Java applet, the project scope may widen to include additional upgrade tasks such as conversion to HTML5 and java_script utilizing WebGL or Canvas as potential platforms, which would allow for VMMM use without a Java client on the browser end or extracting the database from XSL to RoR or similar.

Desired Skills

The successful applicant will be comfortable using several web browsers, simple text editors, preprocessors, and combing log files to aid in the troubleshooting, debugging, and problem diagnosis facets of implementing new web application code. Before applying please view and explore the VMMM at virtual-museum.soils.wisc.edu by adding http://virtual-museum.soils.wisc.edu to the Exception Site List on the Security Tab of the your Java Control Panel. Applicants will need the most recent desktop client of Java installed from http://java.com to perform this task.

Please provide resume and statement of interest to:

Christy Davidson cdavidson@wisc.edu by July 1, 2014.