

Research Associate I – Position #6794

Summary

The Human Computer Interaction Institution of Carnegie Mellon University seeks one Research Associate to contribute to a research project on developing an on-line learning environment to study how students learn by teaching others. The proposed learning environment is implemented as a Web-based application with a synthetic computer agent embedded as a peer learner that students will be interactively tutoring. We will also conduct pilot studies in a lab and evaluation studies in real classroom settings to measure the effectiveness of the learning environment as well as to develop theories on how students learn by teaching. See the project web site at <http://www.SimStudent.org> for more information about the project. The Research Associate position is to help running studies (70%) both in lab and in local schools as well as system development (30%) mostly in Java with Web and Artificial Intelligence technologies involved.

Minimum Requirements

Bachelor's degree or equivalent combination of training and experience in computer science and/or psychology, or related discipline. ; At least one year of experience in programming, preferably in a research setting. ; An ideal candidate will have strong background in the sciences of learning, especially knowledge and experience in research methods and education psychology (or, cognitive science of human learning). Knowledge in data analysis and/or math education would be plus. Strong technology background would also be required, especially knowledge and skills in Java programming and common scripting language (e.g., Unix shell script); General computer literacy, including ability to use a variety of software packages to manipulate data; Primarily sedentary position with some mobility; i.e., ability to stoop, reach, bend at waist, grasp. Ability to lift and carry equipment to research site. keyboard use/repetitive hand motion; ability to travel to off campus locations; Close contact with computer screen for prolonged periods. Must be able to work in an office without windows and/or with intermittent noise from students and other neighboring workers; Ability to collect and record data; ability to maintain accurate and detailed records; ability to understand and follow directions; must be able to work closely with others. ; May be required to travel to various research site locations off campus. Some evening and week-end hours may be required;

Preferred Requirements

Additional course work in computer applications and/or research methods; Teaching experience in K-12 math. ; Two or more years experience in research programming in Java and Web-applications (e.g., JavaScript, Ajax, HTML, XML). Skills in Unix operating systems especially writing and running shell script.

TO APPLY: Please go online to <http://www.cmu.edu/jobs> and apply to **Job #6794**.

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