FULL-TIME GRADUATE RESEARCH ASSISTANT / STUDENT ASSISTANT POSITION

DATE POSTED: FEBRUARY 16, 2012
DEADLINE FOR APPLICATION: FEBRUARY 27, 2012

CONTACT (NO PHONE CALLS PLEASE)
Sanjay Goel, Director of Research
New York State Center for Information Forensics and Assurance
goel@albany.edu

POSITION DETAILS
DEPARTMENT: NYS Center for Information Forensics and Assurance (on-campus)
TYPE: Research
HOURS: 20 hrs/week during semester, chance for up to 40 hrs / week during winter and summer
TUITION COVERED: Up to 9 credits for graduate students
ANTICIPATED DUTIES:
At the Center, we have received a large grant from the James S. McDonnell Foundation for the years 2011 – 2015. The work involves the use of self-organization for modeling complex systems (specifically in this case, the traffic grid) akin to the behavior of social insects such as bees and ants.

We are looking for a responsible, intelligent, conscientious, and creative graduate or undergraduate student who will attend graduate school in Fall 2012 who can help develop simulation models for such systems in Java (and preferably in Python as well). The student will participate in a team and work on analyzing complex systems, developing algorithms for modeling them, as well as report writing and literature review. The work will also involve analyzing datasets and writing code for natural language processing. The highest academic integrity and quality-of-work is expected. Mentoring will be provided to the student during the work.

The preference would be to hire a graduate student early in his/her doctoral study, a first-year Master’s student to ensure some longevity on the project, or an undergraduate student who will continue their graduate studies in Fall 2012. However, all qualified individuals are encouraged to apply. The person hired will receive a 9-credit student assistantship and an hourly salary based on level of experience and knowledge.

PREFERRED QUALIFICATIONS:
• Experience in Java programming (great if also experienced with Python)
• 2-3 years experience with programming
• Software engineering / transportation background
• Ability to do high-quality literature review
• Superior writing / communication skills
• In good academic standing at a UAlbany graduate program

You may meet most, but not all of these preferred qualifications. In that case, please still consider applying. We may be hiring two people to get the right skillset.

APPLICATION PROCESS
By February 27, 2012, please email the materials listed in the next section to Sanjay Goel at: goel@albany.edu. No phone calls, please.

APPLICATION MATERIALS REQUESTED: • Application letter describing qualifications for the position • Curriculum Vitae / Resume • Names and contact information of two references • Writing sample