Position: Research Staff Member

Education Requirement: Ph.D. in Computer Science, or equivalent.

Description:

The Systems Analysis and Verification (SAV) Group invites applications from highly motivated and qualified researchers to fill an RSM position in NEC Labs America, Princeton, New Jersey.

The SAV group engages in foundational as well as applied research in analysis of software systems, bringing together the domains of system modeling, formal verification, program analysis, automatic decision procedures, and software testing. Our past research efforts have been incorporated in internal products within NEC that have been deployed for verification of software programs. Going forward, we are interested in testing and verification techniques targeting large distributed systems and applications, such as in data centers or cloud operations. Our projects actively pursue research contributions with publications in leading conferences, as well as technology transfer to collaborators in NEC Japan. More details of past projects are available on the group website http://www.nec-labs.com/research/system/systems_SAV-website.

We are currently looking for highly qualified individuals with an interest in large distributed systems and service applications, and in utilizing testing and verification techniques for their development and operation. Applicants must have a Ph.D. in Computer Science or equivalent, and have a strong publication record in one or more of the above topics. Applicants should have a keen interest in driving innovative technologies into real industry practice.

Requirements:
• Strong technical background in distributed systems and services
• Solid understanding of operating systems and networks
• Experience or familiarity with testing and verification techniques

Bonus skills:
• Experience with Hadoop, OpenStack, OpenFlow, or similar platforms
• Experience in systems programming (Linux/Unix, Windows)

NEC Laboratories America, Inc. conducts research in support of NEC's US and global businesses, with a research program that covers many areas, reflecting the breadth of NEC's business. It supports an extensive summer internship program and promotes successful collaborations with academic institutions. It is a part of NEC's global research infrastructure, which includes laboratories in Japan, the United States, Europe, and China. More information can be found on http://www.nec-labs.com.

Interested candidates can apply at http://www.nec-labs.com/careers/index.php (for the Systems Analysis and Verification posting). Along with a current CV, please provide a short statement of research interests and career goals.