Postgraduate Research Position—
Cyber Security Research (ORNL06–03–2–CSED)

The Cyber Security & Information Infrastructure Research (CS&IIR) Group at the Oak Ridge National Laboratory (ORNL) seeks candidates for a postdoctoral position in cyber security research.

The successful candidate will be innovative and creative in developing new research ideas, participate in ongoing research projects, and participate in the proposal development for potential funding of research projects. The successful candidate must have extensive knowledge and demonstrated abilities with LAN/WAN hardware, network layer protocols, VPNs, Security, QoS, Remote/Local Access, Multi-Service (Voice and Video), Campus/MAN, WAN, Transmission Systems, SCADA Systems, Wireless and evolving protocols such as IPv6. The successful candidate will have demonstrated knowledge of computer systems and network architectures; hardware and operating systems theory; networking principles and troubleshooting techniques; data communications, computer networks, and distributed systems theory; and TCP/IP. The successful candidate will be able to demonstrate the capability to perform research and design, develop, and engineer very complex computer networks and distributed computer systems. Knowledge of network monitoring, testing, installation, maintenance and configuration management of computer network and distributed computing systems is required.

The CS&IIR Group in the Computational Sciences and Engineering (CSE) Division is a leader in the research, development, implementation, and application of systems, science, and technology for cyber security and information infrastructure. The mission of CS&IIR is to support national security and intelligence community programs through research, development, and application of leading-edge research. Additional information about is available at http://www.ornl.gov and http://www.ioc.ornl.gov/

Position requirements:

- A recent PhD in cyber security or computational sciences or a closely related discipline.
- Programming skills in a language such as C, C++, Java, or various application languages is desirable
- A strong background in network and cyber security capabilities and emerging technologies and knowledge of network architectures, hardware and operating system theory, along with communications, networking and distributed systems theory, is needed. Practical experience in modeling and simulation is a plus.
- Candidates should have excellent communications skills and a desire to work in an applied research environment.

Qualified candidates are invited to apply at http://www.orau.gov/orise/edu/ornl/ornl-pd/ornlpdoc.htm *and* send a current CV and list of three or more references to: **J. P. Trien, Oak Ridge National Laboratory, P. O. Box 2008, Oak Ridge, TN 37831-6418** or E-mail: trienjp@ornl.gov .

Please reference the position title and number (Cyber Security Research ORNL06-03-2-CSED) when corresponding about this position.

Appointments are for one year with an expected total duration of two years. Appointments are offered through the Oak Ridge Institute for Science and Education (ORISE): http://see.orau.org/AcademicStatus.aspx?type=PostDoc. Annual stipend levels are highly competitive. Some positions may require the ability to obtain and maintain a U.S. Department of Energy security clearance and, therefore, U. S. citizenship may be required in some cases. The postdoctoral program is open to all qualified individuals without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.

ORNL, a multiprogram research facility managed by UT-Battelle, LLC, for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse work force.