ORNL Publications

External Publication

Job Posting Title

Visual Analytics Researcher / NB50497531

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Purpose

The Cyber & Information Security Research (CSIR) Group at Oak Ridge National Laboratory conducts cutting edge research in cyber security, situational awareness, visual analytics and information security to defend, understand, secure, and defeat known and unknown adversaries to protect the energy economic and security infrastructure. For more information on the group's activities, visit http://www.cisr.ornl.gov/ .

The CSIR Group invites applications for the position of Research Scientist in the area of Visual Analytics.

Major Duties/Responsibilities

• Successful candidates for the position of Visual Analytics Researcher will work in a research and development environment focusing on information visualization, visual analytics, and human-computer interaction.
• The position requires innovative thinking about user interaction methods, information visualization layouts, integration of visualizations with automated analytics, and evaluation methods.
• Qualified applicants will be expected to design, implement, and evaluate visual analytics solutions and to derive requirements from users and follow user-centered design principles.
• Qualified applicants will be expected to work collaboratively in multi-disciplinary teams and participate in national and international forums for the development of significant new concepts or novel approaches.
• Qualified applicants will be responsible for developing technical solutions for cyber security, health care, information operations, knowledge discovery, and intelligence analysis related to national security.
• Successful candidates will author peer-reviewed papers, technical reports, and proposals for internal and external release.

Qualifications Required

Minimum Qualifications Required:

• The position requires a Ph.D. in Computer Science or a related field.
• Candidates must have a proven record of research accomplishments, excellent communications skills, and a strong desire to work in a team environment.
• Research experience pertaining to information visualization, visual analytics, human computer interaction, and user evaluations
• Excellent programming skills (experience with Node.js/JavaScript is preferred);
• Hands-on skills and experience with foundational web programming technologies, including JavaScript, HTML5, CSS
• Hands-on skills and experience with client-side web-based visualization tools

(experience with d3js is preferred).
• Excellent communication skills for conveying technical material to both scientists and non-scientists in both written and oral presentations.
• Self-disciplined work ethic and eagerness to tackle challenging research problems.

Security Clearance Requirement:

This position requires the ability to obtain and maintain a clearance from the Department of Energy, which requires US Citizenship. As such, this position is a Workplace Substance Abuse program (WSAP) testing designated position which requires passing a pre-placement drug test and participation in an ongoing random drug testing program in which employees are subject to being randomly selected for testing. The occupant of this position will also be subject to an ongoing requirement to report to ORNL any drug-related arrest or conviction or receipt of a positive drug test result.

Qualifications Desired:

• Ph.D. and 3+ years of experience are desired.
• Candidates who have significantly contributed to open-source projects are preferred.
• Experience developing and managing research projects and familiarity with federal funding procedures, regulations, policies and practices is preferred.

This position will remain open for a minimum of 5 days after which it will close when a qualified candidate is identified and/or hired.

We accept Word(.doc, .docx), Excel(.xls, .xlsx), PowerPoint(.ppt, .pptx), Adobe(.pdf), Rich Text Format(.rtf), HTML(.htm, .hmtl) and text files(.txt) up to 2MB in size. Resumes from third party vendors will not be accepted; these resumes will be deleted and the candidates submitted will not be considered for employment.

If you have trouble applying for a position, please email ORNLRecruiting@ornl.gov.

Notice: If the position requires a Security Clearance, reviews and tests for the absence of any illegal drug as defined in 10 CFR 707.4 will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment and subsequent reinvestigations may be required.

If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR 709, a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply. UT-Battelle is an E-Verify Employer.