

PREP Research Associate

This position is part of the National Institute of Standards and Technology (NIST) Professional Research Experience Program (PREP). NIST recognizes that its research staff may want to collaborate with researchers at academic institutions on specific projects of mutual interest and, therefore, requires those institutions to be recipients of a PREP award. The PREP program involves staff from a wide range of backgrounds conducting scientific research across various fields. Individuals in this position will perform technical work supporting the collaboration's scientific research.

Research Title:

Human-Centered Cybersecurity Research and Community Standards Development

The work will entail:

The National Institute of Standards and Technology's (NIST) Information Technology Laboratory is seeking a qualified candidate to support the Human-Centered Cybersecurity (HCC) Program (<https://csrc.nist.gov/projects/human-centered-cybersecurity>). The program considers human needs, motivations, behaviors, and abilities in cybersecurity. The student will work on projects to support the development of an HCC standard description and organizational guidelines mapped to existing NIST cybersecurity frameworks. The candidate for this position will work alongside world-class researchers at NIST.

U.S. Citizen Preferred

Key responsibilities will include but are not limited to:

- Conduct analysis of human subjects survey or interview data using statistical methods and qualitative thematic analysis
- Search for, summarize, and synthesize HCC and security framework literature
- Assist in organizing public workshops
- Organize, synthesize, and help to adjudicate public comments
- Write/prepare reports, research papers, and presentations
- Present project information at internal and external meetings

Required Skills, Expertise, and Qualifications

- Current PhD/doctoral student in a field related to HCC (e.g., computer/information science, social science, human factors, organizational leadership) with at least one year left in degree
- Education, research, or work experience in cybersecurity
- Qualitative (preferred) or quantitative (statistical analysis) human subjects research experience
- Demonstrated ability to work both in teams and independently
- Strong organizational skills
- Strong oral and written communication skills

Other Desirable Qualifications

- Experience reading, summarizing, and synthesizing research and industry reports/literature
- Experience creating visualizations of research data

Privacy Act Statement

Authority: 15 U.S.C. § 278g-1(e)(1) and (e)(3) and 15 U.S.C. § 272(b) and (c)

Purpose: The National Institute for Standards and Technology (NIST) hosts the [Professional Research Experience Program \(PREP\)](#) which is designed to provide valuable laboratory experience and financial assistance to undergraduates, post-bachelor's degree holders, graduate students, master's degree holders, postdocs, and faculty.

PREP is a 5-year cooperative agreement between NIST laboratories and participating PREP Universities to establish a collaborative research relationship between NIST and U.S. institutions of higher education in the following disciplines including (but may not be limited to) biochemistry, biological sciences, chemistry, computer science, engineering, electronics, materials science, mathematics, nanoscale science, neutron science, physical science, physics, and statistics. This collection of information is needed to facilitate administrative functions of the PREP Program.

Routine Uses: NIST will use the information collected to perform the requisite reviews of the applications to determine eligibility, and to meet programmatic requirements. Disclosure of this information is also subject to all the published routine uses as identified in the Privacy Act System of Records Notices: NIST-1: NIST Associates.

Disclosure: Furnishing this information is voluntary. When you submit the form, you are indicating your voluntary consent for NIST to use of the information you submit for the purpose stated.