

# Research Associate with National Institute of Standards: NMSU NIST PREP Program

This position is part of the National Institute of Standards (NIST) Professional Research Experience (PREP) program. NIST recognizes that its research staff may wish to collaborate with researchers at academic institutions on specific projects of mutual interest, thus requires that such institutions must be the recipient of a PREP award. The PREP program requires staff from a wide range of backgrounds to work on scientific research in many areas. Employees in this position will perform technical work that underpins the scientific research of the collaboration.

As an engineer/developer, the selected applicant will be part of a team of engineers and researchers conducting research and development (R&D) activities focused on accelerating the development of indoor mapping, tracking, and navigation capabilities for first responders.

## Key responsibilities will include but are not limited to:

- Create relationships with local public safety representatives and develop research projects related to indoor mapping with mobile lidar scanning systems.
- Collect data using a mobile lidar scanning system, process the acquired data.
- Collaborate with team members in the development of Augmented Reality software.
- Utilize an OptiTrack motion capture system to test infrastructure free indoor localization system.
- Utilize a total station theodolite to conduct measurements.
- Work with the PSCR Lab Operations team to coordinate and document the deployment of hardware and software capabilities to support the team's R&D activities.
- Other hardware/software tasks as required.
- Meet the mission goals of the Public Safety Communications Research Division at NIST.

## Qualifications

- A Bachelor's degree in Computer Science, Engineering, or a related field.
- 1 year of relevant experience.
- Advance knowledge and skill in applying theories, principles, and methods of a technical professional field (in science, engineering, information technology, or mathematics) and of a specialty within that field.
- Ability to define problems, perform background research, develop, and execute a project plan, organize, and evaluate results, and prepare reports of findings.
- Ability to consider precedents and use judgment to research, select, interpret, modify, adapt, and apply available guidelines to specific problems or issues.
- Ability to present ideas and results in a clear, compelling, and persuasive manner.

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Choose the following option: [17-2072.00 Electronics Engineers, Except Computer](#)

Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls.

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