

**Job type:** Principal or Staff Scientist

**Organization:** United Technology Research Center

**Contact info:** Isaac Cohen, isaac.cohen@utrc.utc.com

**Description:** Perception / Localization & Mapping

United Technologies Corporation, a Fortune top 50 company is a dynamic global corporation operating at the leading edge of commercial and military aviation, aerospace systems, climate control, elevator design, security and fire protection as well as hydrogen fuel cell development.

The candidate is expected to interact with United Technologies Research Center (UTRC) Program Offices and United Technologies Corporation (UTC) business units to enhance existing programs, create opportunities, including the acquisition of contract awards, assist in setting strategic direction, and provide leadership to efforts involving autonomy and perception, especially in the areas of simultaneous localization and mapping, sensor fusion, LIDAR and video for navigation. Additionally, this individual will be called upon to outline future business opportunities and to provide technological and business solutions in response to UTC business unit requirements.

The candidate must be able to work effectively in a multidisciplinary, multinational team environment focused on innovation and be able to partner with leading, worldwide institutions (university, government agencies, national labs, and professional organizations) to meet organizational objectives. The candidate will have exceptional communication skills, capable of interacting with UTRC senior management while also being able to mentor junior members of the technical staff. The candidate must be able to provide timely, accurate and detailed reports and presentations. Additionally, the successful candidate will be expected to:

- Provide technical leadership and direction and serve as a technical resource to others, including being a member of technical review boards.
- Act as principal investigator, leading multidisciplinary teams focused on creative, integrated solutions for business and technical challenges in simultaneous localization and mapping, video for navigation, multi-modal sensor data fusion, and decision making processes from the navigational information.
- Identify and champion promising technical innovations for UTC Business units through the establishment of university, national labs and other external partnerships with world-class institutions.
- Source and evaluate new technology for UTC; create and leverage internal and external partnerships; create opportunities through the acquisition of contract awards.
- Foster development of creativity and technical excellence in others.
- Author technical papers; be active in internal and external networks.

Required: M.S. in Computer Science, Electrical or Computer Engineering, Mathematics, Statistics, or a related field and a minimum of 5-10 years of industrial or academic experience (post M.S.).

Preferred: Ph.D. in Computer Science, Electrical or Computer Engineering, Mathematics, Statistics, or a related field, plus 5-8 years of industrial or academic experience after completion of the Ph.D. in disciplines as outlined above.

Expert knowledge and a minimum of 5-10 years of industrial or academic experience (post M.S.) in at least one of the following: (1) multi-sensor data fusion for context-specific decision support relevant to localization and mapping, or (2) LIDAR and video for navigation, including the ability to represent surrounding views automatically and make decisions based on the scene information.

-Demonstrated ability to lead multi-disciplinary teams to successfully achieve desired technical outcomes within time and budget constraints.

-Demonstrated ability to write proposals and win external funding/contracts/grants.

-Record of technical contributions, including patents and publications in refereed technical journals.

-Proven success in innovative strategic and technical thinking, willingness to champion and challenge new technical ideas, and experience in applying work to real-world applications.

-Excellent communication and leadership skills; innovative strategic and technical thinker; high energy; team player.

-Demonstrated team leadership in multi-disciplinary and multi-cultural industrial applications is a plus.

Proof of American Citizenship or Permanent US Residence is required for this position.

United Technologies Corporation is An Equal Opportunity/Affirmative Action Employer.

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