

Principal Scientist-Perception (Autonomous Aerial Vehicles) – United Technologies Research Center

The candidate must be able to work effectively in a multidisciplinary, multinational team environment focused on innovation and be able to partner with universities, 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.

Additionally, the successful candidate will be expected to:

- Act as principal investigator, leading multidisciplinary teams focused on creative, integrated solutions for autonomous vehicle technology.
- Provide technical leadership and direction in the areas of detection, classification and tracking of multiple agents in an urban environment, as well as real-time autonomous trajectory re-planning.
- Source and evaluate new technology for UTC; create and leverage internal and external partnerships, especially with government agencies; create opportunities through the acquisition of contract awards.
- Author technical papers; be active in internal and external networks.

Education:

- Ph.D. in Computer Science, Electrical or Computer Engineering, Mathematics, Statistics, or a related field, plus 5-8 years of industrial or academic experience. Or.
- MS plus 8+ years of experience

Expert knowledge in as many of the following technologies (1) multi-sensor data fusion for context-specific decision support relevant to localization and mapping, (2) LIDAR and video for navigation, including the ability to represent surrounding views automatically and make decisions based on the scene information, (3) detection, classification and tracking of multiple agents in an urban environment, (4) real-time autonomous trajectory re-planning.

Additional preferred skills:

- 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.

US Citizenship or Permanent Resident is required for this position

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