United Technologies Research Center - Principal Engineer/Scientist-Perception

Key skills include target detection, video for navigation, object tracking/recognition from image and range data, LIDAR, Range Sensing, Visual Navigation, Simultaneous Localization and Mapping (SLAM), Sensor Fusion

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:

- 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, multimodal sensor data fusion, and decision making processes from the navigational information.

- 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. Additionally, there is the expectation to serve as a technical resource to others, including being a member of technical review boards.

- Identify and champion promising technical innovations for UTC Business units through knowledge of the state-of-the-art in fields related to perception for navigation, the establishment of partnerships with universities, national labs, and government / military institutions.

- 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.

- Foster development of creativity and technical excellence in others.

- Author technical papers; be active in internal and external networks.

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. M.S. with 8-10 years industrial experience may be considered. - Expert knowledge and a minimum of 5-8 years of industrial or academic experience (post M.S)

- 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.

 *This position requires candidates to be either a U.S. Citizen or Permanent Resident.

If you have any recommendations or have a personal interest in either of these opportunities, please contact me. Thank you.

Sincerely,
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