

Principal Engineer, Electronic Security Systems

United Technologies Corporation (UTC) is a diversified company whose products include Carrier heating and air conditioning, Hamilton Sundstrand aerospace systems and industrial products, Otis elevators and escalators, Pratt & Whitney aircraft engines, Sikorsky helicopters, UTC Fire & Security systems and UTC Power fuel cells. UTC, a Fortune 50 company, has been named the "Most Admired" aerospace and defense company in 2009 by Fortune, and has been named to the Dow Jones Sustainability Indexes for 11 straight years (1999-2009).

The United Technologies Research Center (UTRC) has an outstanding opportunity in the UTRC Fire & Security Program Office for an experienced and technically focused individual with expertise in technologies key to electronic security, such as video analytics, access control methods, and biometrics. For this position we are interested in technically deep and driven candidates with the experience needed to grow a strong research team and to take the lead in defining, designing and demonstrating the next generation of security systems; candidates who want to see their innovative ideas realized in products.

The successful candidate will be expected to:

- Provide technical and strategic leadership to the research team, developing technology roadmaps in cooperation with UTRC and UTC Fire & Security leadership to guide future investments
- Nurture a portfolio of research projects, spanning from concept creation to prototype demonstration, that will deliver the next generation of innovative electronic security systems
- Interact with internal and external customers, write proposals and win government contracts to sustain a comprehensive research portfolio aligned with the technology roadmaps
- Maintain an extensive network of contacts in the research community and publish results in peer reviewed forums such as journals and conferences
- Mentor team members, assuring technical excellence and rigor
- Demonstrate entrepreneurial skills, superior communication and teamwork skills

Required Qualifications:

- Ph.D. degree in Electrical Engineering, Computer Engineering, Applied Mathematics, or Computer Science with 5+ years of research and technology development experience (post graduation) in areas directly relevant to electronic security systems
- Expertise in two or more of the following areas, demonstrated in applications directly relevant to electronic security systems: multi-dimensional digital signal processing, sensor fusion, computer vision, real-time embedded algorithm development, data compression for real-time applications (e.g., codecs), biometrics, and decision support systems.
- Proven track record of
 - initiating and leading research projects
 - engagement within the research community
 - securing funding through research proposals from government or other funding agencies
 - publishing in peer-reviewed archival journals
 - creating patented inventions
- US Citizenship or permanent residency required

For more information visit: <http://www.utrc.utc.com>, <http://www.utc.com> and <http://www.utcfireandsecurity.com>