Job Posting

United Technologies Corporation (UTC; NYSC: UTX) is headquartered in Farmington, CT, just outside of Hartford, CT. We employ over 204,000 talented individuals globally, achieve net sales in excess of $60 billion, and invest $4B each year back into research & development activities. Our aerospace businesses include Pratt & Whitney aircraft engines and Collins Aerospace– the combination of which make us the largest aerospace company in the world. Our commercial businesses include Otis elevators and escalators and UTC Climate, Controls & Security – a leading provider of heating, ventilation, air conditioning, fire and security systems and building automation controls.

United Technologies Corporation was founded by some of the world’s greatest inventors. We helped build the Second Industrial Revolution and brought about a century of urbanization and globalization. Now we need your help to build the next one.

United Technologies Research Center

The United Technologies Research Center (UTRC) is the corporate research center of UTC, operating at the leading edge of commercial and military aviation, aerospace systems, climate control, elevator design, and security and fire protection. At UTRC, we create new ideas and opportunities by collaborating across time zones, geographies and cultures. We are a community of high performing inventors, innovators, thinkers, manufacturers, motivators, leaders, problem solvers, dreamers and achievers.

We work with universities, external research organizations, and global business units to identify, develop and demonstrate innovative technology solutions, products, services and intelligent systems. We are looking for scientists and engineers who have a passion for innovation and a high tolerance for ambiguity. You must be an independent thinker and self-starter with a demonstrated ability to produce high-quality technical content by collaborating with fellow researchers and product specialists. You will have the opportunity to continuously develop and invent new technologies, products and processes. At UTRC, you’ll be part of an evolving, globally diverse company that’s moving fast to shape the future of technology - one full of career opportunities and the chance to contribute and grow in a variety of ways. We are committed to recruiting and retaining the best and brightest people from the broadest and most diverse talent pool possible, so that we can serve our customers globally. If you have ideas, inspiration and expertise to continue developing products and systems that make the world a better place to live, then we have a great opportunity for you to contribute to our continued legacy of innovation.

United Technologies Research Center Italy, ALES S.r.l.

ALES is a UTRC’s European research center with offices in Rome and Trento, Italy, specialized in model based technologies and methodologies for the design and verification of distributed safety critical embedded systems. ALES’ competences cross several application domains, such as aircraft electrical power distribution and air management systems, refrigeration and building automation, and several disciplines,
such as formal and run-time methods for verification of hybrid and discrete systems, requirement and safety analysis and design flow integrations. ALES provides services and innovation to an international network of UTC customers and offers a collaborative and stimulating working environment for candidates looking for a challenging and valid career.

Application:

Applicant should send the information to the following email address: ales.hr@utc.com

Applicants should add to their CV the following consensus statement to allow ALES to treat the information in compliance with the Italian privacy law:


Pursuant to Article 13 of Legislative Decree of 30 June 2003, n. 196 - Code regarding the protection of personal data and of Article 13 of EU Regulation n. 2016/679 (GDPR), we inform you that the personal data you have communicated to Ales srl., based in Roma, Piazza della Repubblica, 68, 00184 Italia, by sending a curriculum vitae and/or during the selection interview, is entered in the Company database and subject to processing with IT or manual procedures in compliance with the provisions of Legislative Decree No. 196/2003, by the GDPR and by the rules of the Guarantor for the protection of personal data.
## Senior Engineer - Formal Methods for Cyber Security

**Job Responsibilities**
ALES s.r.l. seeks candidates with experience in cyber-security for embedded systems and communication architectures to join the Formal Methods group in Rome or in Trento, Italy. As senior engineer, the successful candidate will hold the role of technical contributor and/or principal investigator for High-TRL projects with UTC business units on complex IT/OT infrastructures, EU projects in the area of cybersecurity for digital manufacturing and industry 4.0, and support for EU funding development. The candidate will work in a multinational team environment focused on research and innovation.

**Education**
The minimal education requirements are a Ph.D. in electrical engineering or computer science, or a MS in the same areas possibly supplemented by two years of industrial research after the degree in the key technical areas described below.

**Experience/Qualifications**
The successful candidate shall possess an in-depth knowledge of:
- Cybersecurity for Communication Architectures WiFi/IT/OT
- Threat Modeling and Cybersecurity Risk Assessment
- Consolidated experience in conference/journals papers publication
- Experience in SW Static Analysis and SW Verification
- Experience in participation to and creation of EU funding proposals.

The ideal candidate is:
- Well-organized, with excellent interpersonal, leadership and communication skills.
- Willing to champion and challenge new technical ideas.
- Able to collaborate with universities, and national and international labs to meet organizational objectives within time and budget constraints.

The candidate shall be able to integrate in a distributed and international team; therefore being fluent in English is mandatory.