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:

*Ai sensi dell’articolo 13 del Decreto Legislativo 30 giugno 2003, n. 196 – Codice in materia di protezione dei dati personali e dell’art 13 Regolamento UE n. 2016/679 (GDPR), La informiamo che i dati personali da Lei comunicati ad Ales srl., con sede a Roma, Piazza della Repubblica, 68, 00184 Italia, tramite invio del curriculum vitae e/o nel corso del colloquio di selezione, sono inseriti nella banca dati della Società e oggetto di trattamento con procedure informatiche o manuali in osservanza di quanto previsto dal D.Lgs. 196/2003, dal GDPR e dai provvedimenti del Garante per la protezione dei dati personali.*

*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.*
Research Engineer, Embedded Software

UTRC-ALES seeks candidates with expertise in design and analysis of networked embedded systems to join the Embedded Technologies group in Rome, Italy.

Successful candidates are expected to provide technical expertise in the areas of software architecture design and application development, contributing to UTC products and services by:

- Developing model-based software solutions and tools to support end-to-end application lifecycle, from requirements elicitation to testing and application release.
- Implementing industry best practices and addressing gaps in state of the art methodologies for model based system engineering.

The successful candidate will:

- Contribute to an established research agenda related to UTC's aerospace & industrial systems technologies.
- Coordinate and execute R&D activities within international research projects.
- Provide competitive advantage for UTC business units as part of a multidisciplinary and international team of experts.

The minimal education requirements are a Ph.D. in computer science, electronics or telecommunications engineering, or a MS in the same areas supplemented by two years of industrial research.

The successful candidate will have:

- Proven experience in embedded programming (C/C++), cross-compilation, profiling and debugging.
- Good knowledge in embedded computing platforms (from microcontrollers to heterogeneous SoCs).
- Practical experience with real-time operating systems or embedded hypervisors.
- Background in model-based design methodologies and modeling languages (SysML, UML).

Experience in the fields of distributed embedded systems, sensor networks, Internet of Things will be considered a plus.

The ideal candidate will also have experience in the areas of:

- Avionic software architectures (e.g. ARINC 653-based).

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, government agencies, and national labs to meet organizational objectives within time and budget constraints.

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