

Electrical Engineer

Business Unit UTC Aerospace Systems **Req ID** TBD **Date posted** TBD **City** Raleigh

State/Province North Carolina

When the global aerospace community looks for ideas and solutions to its biggest challenges, they turn to the people of UTC Aerospace Systems. We design, invent and deliver the most advanced and diverse range of aerospace systems on the market. We are inventors. We are manufacturers. We work in space exploration, commercial air travel, defense and rescue applications. Always learning and pushing the boundaries, we are an undisputed industry leader that continually sets the bar higher and higher. Come soar with us.

As part of the Sensors & Integrated Systems (SIS) team, you'll help develop* the next generation of more intelligent, more integrated and more reliable solutions that enhance aircraft safety and performance in the most rigorous flight conditions. We have 100 years of experience, a phenomenal product portfolio, state-of-the-art test labs and the resources to make your ideas shine. Come soar with us.

At UTC Aerospace Systems, we believe that innovation starts with our people. That's why we have over 8,000 engineers located in 70 sites around the globe, across 14 countries. But our Engineering organization is not just a collection of individual businesses. We use our size and expertise to create system solutions that work across all our product lines.

Our industry-leading experts are setting the standards for the aerospace industry and paving the way for the future. But as new challenges present themselves, we need fresh, creative and motivated minds to overcome these hurdles, help us break barriers and achieve new levels of innovation. Do you have what it takes to join a global, diverse organization that doesn't shy away from big opportunities? If so, we invite you to join our Engineering ranks and create the next generation of aerospace technologies. Together, we will move the world forward!

The UTAS-SIS Technology Organization announces an opening for an Entry Level Electrical Engineering position to support its role in advancing the state of the art technology in sensors and sensor systems. The UTAS-SIS Technology organization provides advanced research and development to support UTAS' mission of offering an extensive range of products, systems and services for aircraft and engine manufacturers, airlines, and defense forces around the world. The UTAS-SIS Technology organization is the recognized source of strategic technologies for innovative new sensors and sensor systems throughout the enterprise.

The Electrical Engineer will perform the following tasks:

- Design, simulate, implement and test digital electronics using discrete circuits, CPLDs, FPGAs, DSPs, and microcontrollers, and generate firmware using VHDL, Verilog, C++, and MATLAB programming languages.
- Model and simulate electronic circuits using simulation tools such as MATLAB/Simulink, ModelSim, and FPGA vendor tools (Xilinx, Altera, etc.).
- Implement hardware prototypes, breadboard designs, and test them in the lab environment.

- Utilize understanding of digital CCA design process including requirements generation, preliminary design, peer reviews, detailed design, test plan generation, and integration and test
- Assist in the design of Fiber-optic communication systems, which include working with network protocols and high-speed custom fiber optic transceiver modules.
- Generate high quality specifications, reports, publications, and proposals.
- Present technical ideas and progress reports to peers, customers, and management.
- Work within a team of multidisciplinary engineers to complete projects on schedule within budget for a specific customer.
- Have the ability to understand, capture, and document customer and user requirements and translate them to technical solutions.

This position will be based in Raleigh, NC.

Qualification: Required

- Working knowledge of electrical test set-ups.
- Hands-on electrical engineering background.
- Strong organizational skills and analytical and problem solving skills.
- Strong communication skills, both verbal and written.

This position requires US Citizenship or US Persons (Green card holder, other) Status

Nothing matters more to UTC Aerospace Systems than our strong ethical and safety commitments. As such, all U.S. positions require a background check, which may include a drug screen.

Education: Required

B.S. in Electrical Engineering or closely related field with 0-3 years of relevant experience

Preferred

Advanced degree is a plus.

Background & experience with an emphasis on optical (laser) interrogators

United Technologies Corporation is An Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status, age or any other federally protected class.

Note to candidates regarding interview scams: We'd like to make it clear that UTC Aerospace Systems never asks candidates for money. If you've been approached with a job offer that you suspect may be fraudulent, we strongly recommend you do not respond, send money or personal information. Please report any suspicious activity to [Talent Acquisition](#)