

## Spacecraft Engineer (Electronics) at STAR@NUS

The Satellite Technology and Research Centre (STAR) focuses on building miniaturized satellites that could fly in multiples for formation and constellation flying. It is envisioned that this will open out new potential applications such as collaborative sensing for the environment, more timely and scalable communication services. Satellite mission of these applications will in general require advanced technology such as active propulsion control of the satellites, highly precise inter-satellite navigation, advanced attitude control etc.

Presently, the satellites under development feature STAR's patented scalable BUS electronics, adapted for use in different mission requirements of each programme. We are looking for passionate electronic engineers to join our team to bring innovative ideas and solutions to our satellite programs.

### About the job

- Pioneer development of electronic systems for spacecraft from research through to production
- Solve problems across multidisciplinary team to ensure smooth integration of satellite subsystems
- Innovate and explore potential upcoming technologies for satellite applications
- Design high performance electronic circuits compliant to EMI/EMC standards

### What we look for

- Bachelor or Master degree in Engineering from a reputable university
- Experience in designing electronic systems. Fresh graduates are welcome to apply
- Confident in working on PCB layouts and schematic diagrams
- Practical hands-on skills (debugging, troubleshooting, soldering, harnessing) to support the hardware development and testing
- Good understanding of embedded systems with programming experience in C
- Experience in various interface buses such as CAN, SPI, I2C
- Experience in (RT)OS, LabVIEW and Git is a plus
- Team-oriented individual with good inter-personal skills
- Fluent verbal and written communications in English

### Benefits

- Participate in the development of satellite projects at a world-class research facility
- Be involved in a multi-disciplinary program, conducting research/engineering work from concept to space-qualification.
- Exposure to spacecraft design and testing based on NASA/ESA standards.
- Opportunity to pursue a Master or PhD degree concurrently part-time
- Opportunity for external training in relevant skillsets

Interested applicants may send their resume via email to:

Satellite Technology and Research Centre (STAR)

[star@nus.edu.sg](mailto:star@nus.edu.sg)