

You are a student looking for exciting opportunities in the field of electronics engineering and computer science for satellite applications? You want to work in an interdisciplinary engineering team and gain hands-on experience in developing cutting-edge technologies and systems?

It's time to join!

Electronics Development for Satellite Instrumentation



In the frame of future space projects, we are offering student positions for Master and Bachelor theses as well as for research internships and working students. Depending on your interests, you will work on some of the following (or related) topics for future missions:

- Design, develop and test of implementations in FPGA devices, e.g. Microchip RTG4 and Polarfire, Xilinx Zynq, NanoXplore Brave; taking into account space radiation effects
- Programming of memory interfaces for SRAM, DDR, QDR etc. in VHDL
- Definition and implementation of algorithms for data processing in FPGAs and softcore processors for on-board applications
- Design and development of PCBs using Altium Designer
- Development of test setups including standard measurement instruments like oscilloscopes and function generators, data acquisition systems like NI PXI

Your Qualifications:

- Interest or experience in one or several of the following areas: VHDL, MatLab, LabView, PCB design, system tests and measurement setups, operation of electronics equipment, firmware/hardware/software programming, etc.
- Well-developed communication skills, good conceptual and analytical skills, active problem solving, self-contained work and teamwork-oriented skills
- Fluent in written and spoken English or German

Depending on your professional interest and the corresponding student job (internship, thesis, etc.), we will discuss your participation and define a detailed work plan. If you are interested in joining our team, please do not hesitate to apply per email to Markus Plattner, markus.plattner@tum.de.