

Principal Electrical/Electronics Engineer

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Company: Space Applications Services

Location: Zaventem

Category: computer-and-mathematical

Position

We are looking for **Principal Electrical/Electronics Engineer** who will provide expertise in Electrical/Electronics hardware design and knowledge of data communication equipment, PCB tools and FPGAs, SoC and IP cores.

The successful candidate will also provide general supervision and guidance to junior engineers.

The position is in the Systems Department **Avionics & Embedded Systems Team** (comprised of 6 persons).

The successful candidate will mainly report to the Avionics & Embedded Systems Team Lead.

Location: Sint-Stevens-Woluwe (Brussels Area)

Start Date: the earliest

Tasks and Responsibilities

Electrical and electronics design of spacecraft payload

Technical specification of electronics subsystems

Design of PCBs according to ECSS and/or IPC Class 3, including analysis and simulation

Selection, procurement and qualification of COTS/HiRel electronics subsystems, EEE parts and PCB assemblies

Prepare and perform electrical testing campaign (e.g. functional, performance, EMC, ESD)

Assessment of system reliability, failure modes and safety

Collaborate across Teams and mentorship of junior engineers in areas of expertise.

Skills and Experience

A Master's degree in electronics or relevant discipline

Strong technical experience with at least 6 years in electrical/electronics engineering

Experience in leading or mentoring peers and junior engineers

Deep Knowledge of, and experience with:

- Electrical/electronics hardware design and analysis

- Networking protocols and data communication equipment (e.g. switches, routers, 802.3, TTE)

- PCB design tools (e.g. Altium Designer), impedance matching (e.g. microstrip, stripline), signal propagation delay, parasitics definition, crosstalk minimisation

- FPGAs, SoC and IP Cores (preferably in the space industry)

Strength to cope with schedules and deadlines

Very good written and spoken English.

Considered as Assets

Payload development for ISS

Embedded systems (e.g. microcontroller and FPGA based),

ECSS and/or IPC class 3 standards related to electrical and electronic systems design, manufacturing and testing

Radiation SEU testing and FPGA circuit redundancy solutions (e.g. spatial, temporal redundancy)

Development of VHDL/Verilog for FPGAs and integrating IP cores in FPGA design.

Our Offer

Working within an exceptional sector with Staff located in Belgium, Germany and the Netherlands

A professional and modern working environment with motivated Administrative Staff, Engineers, Astronaut Training Instructors and Scientists coming from all different horizons and countries with a common passion for space and their own expertise

A full-time position with an indefinite contract of employment

A competitive remuneration package and good working conditions

Working from home in part can be a possibility

An individualised training and development programmes.

About Us

Space Applications Services is a company at the forefront of space technology development and the provision of services for human spaceflight, exploration and earth observation missions. Headquartered in Belgium (Brussels Area), with a research office in the Netherlands and a subsidiary in the USA, the company provides solutions for both commercial and institutional customers. We work with clients such as the European Space Agency, the European Commission, governmental and national space agencies as well as the major space industries.

The company develops payloads, avionics, robotics technology and products, and provides complete mission operations control centre solutions to EN9100 standards. The company also provides engineering, science and training services, including astronaut training. From our headquarters, we are in daily contact with the International Space Station (ISS) ensuring our Customers' research is successful.

How To Apply

Upload your CV and Motivation Letter, both in English and to the attention of Mr. Benoit Liétaer.

The candidate shall be eligible to work in the European Union.

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