

Space System Engineer

Space Products and Innovation spins technology into the space industry to simplify manufacturing. SPiN enables rapid, flexible, and cost-effective satellite designs through modularity, by combining MA61C, its plug-and-play intelligent data node, with system engineering. SPiN democratizes access to space, empowering manufacturers to unlock new ventures.

Job purpose

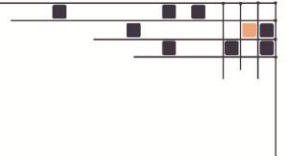
The Space System Engineer will be part of SPiN's system engineering team. The person will be responsible for system design, development, and implementation of satellite avionics concepts using MA61C for testing, subsystem integration such as attitude and control system, and complete spacecraft integration. The person will be hired directly to support the development of the modular Attitude Determination and Control System (mADCS) project and the orbit control system. Furthermore, the engineer will create SPiN's in-house capabilities to support and implement AOCS solutions in small satellites.

Duties and responsibilities

- Analysis and consolidation of mission requirements
- Analysis and consolidation of end-user requirements
- Flow down of user requirements to system requirements
- AOCS Subsystem and hardware/software requirements analysis
- Define the system concept of using modular subsystems in small satellites
- Develop system-level documentation, including ICDs, AIT plans, TPs/TRs, equipment lists, FMECAs, etc.
- Definition of Assembly Integration and Testing (AIT), environmental, and Hardware in the loop (HiL) plan
- Support in the execution of validation and verification plans, AIT, and HiL tests
- Verify that the results comply with the requirements and budgets
- Writing project reports
- Participation in solving interdisciplinary challenges
- Customer support, if necessary

Qualifications

- At least an MSc in Aerospace engineering or similar
- At least three years of experience in space system engineering in small satellites
- At least two years of experience in the development of AOCS systems in Small satellites
- Experience working with system engineering tools
- Knowledge of the AIT process: manufacture, assembly, electrical, functional, and environmental tests
- Experience developing system-level documentation, including ICDs, AIT plans, TPs/TRs, equipment lists, FMECAs, etc.
- Experience with Matlab/Simulink or similar programming languages, along with basic knowledge of C/C++ • Knowledge of MBSE tools is an advantage
- Experience working with ESA is an advantage
- Fluent in English
- Ability and permit to reside and work in Germany
- Willingness to travel as needed



Working conditions

- Location: Darmstadt, Germany
- Start date: Q1 2025

Please fill in the application form to apply for this opportunity: <https://wkf.ms/3rlgV6x>
For more information, you can contact us at hr@spinintech.com