

System Engineer / Project Manager Aerospace Mechanics (m/f)

HPS GmbH is a quickly growing space company and provider of key subsystems: highly accurate reflector antennas for telecom- and science applications, large deployable reflector subsystems for Earth Observation, deployable drag-sail subsystems for de-orbiting, thermal control hardware for spacecrafts and landers, as well as plenty of high end components in the structural and thermal area.

Headquartered in Munich, HPS has a subsidiary in Romania, where MGSE, metal structures and metal thermal hardware components are developed, integration halls provide space for assembly in clean environment. HPS Group concluded 2018 with a staff of 45 persons, 30 out of that in Munich at HPS GmbH, 15 in Bucharest at HPS S.R.L.

HPS is well acknowledged at the European Space Agency ESA, the German Space Agency DLR and at many players of the European space industry. Up to now HPS is onboard 17 space missions, the most recent one are: Ka-band antennas on the German Mission "Heinrich Hertz" and the ESA-mission "PLATO"; in-orbit demonstration flight in autumn 2018 of a deployable sail module for nano-satellites onboard Electron, the NewSpace Launcher of RocketLab (NZ & USA). Currently we are developing, as lead, together with 14 European partners a very large deployable reflector subsystem (6 m reflector diameter, 6 m arm length), as well as concepts for future two Copernicus Expansion Missions.

Due to our rapid growth **we enjoy to enlarge at HPS Germany** our team starting in **October or latest November 2019**, with the following profile:

Job profile:

The post-holder will lead

- **Flight Hardware Projects**
- **Technology Development Projects**

as

- **System Engineer** and/or
- **Project Manager**

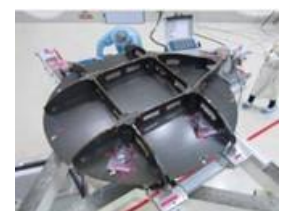
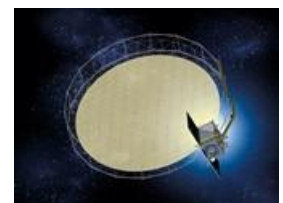
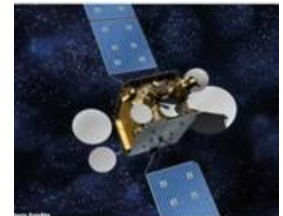
in the area of **deployable sails and nano satellite antennas** for space applications. Please be aware that we are not looking for just an "administrative coordinators" but for persons who are leading, coordinating and motivating a team with appropriate background also in technical know-how, targeting self-responsible the delivery/launch date.

System Engineering:

- Technical management of internal and activities and subcontractors
- Focal customer interface for technical aspects
- Focal internal interface for design, development and verification aspects
- Definition of requirements and elaboration of sub-element specifications
- Development of system architecture, top level product tree and overall design
- Interface engineering, mass budget and performance analysis and control
- Technical change management, identification and monitoring of changes
- Technical subcontractor- and supplier management
- Technical analysis of request for proposals and preparation/lead of technical proposals
- Analysis & review of concurrent design activities in respect of mechanical systems
- Providing functional support to approved projects for all aspects related to mechanical systems and configuration, structural design, analysis and mechanical testing
- Identifying critical development problems and their resolution
- Test planning and coordination of material- up-to subsystem level tests
- Evaluation of test results and elaboration of conclusions, definition of consequences
- Verification control and identification and management of technical risks.

Project Management:

- Management of technology studies and flight hardware projects
- Internal staff management
- Subcontractor/supplier selection and management
- Risk management, change management
- Schedule management and meetings organization; plan & track deliverables



- Analysis of received request for proposals and lead of preparation of proposals
- Identifying critical development problems and their resolution
- Preparing and conducting major reviews within R&D and commercial projects.

Qualification:

Applicants should have as a minimum:

- More than 5 years of experience in relevant jobs
- Strong technical background in at least one of the following disciplines: lightweight structures, CFRP structures, deployable structures, antennas, thermal hardware.
- Ability to satisfy both, Customer requirements as well as company level goals
- Knowledge in space flight hardware projects
- Knowledge about ESA ECSS standards
- Good knowledge in English (writing and speaking)
- MS office S/W tools (minimum: MS Word, MS Excel, Power Point, MS Project).
- Master's degree in mechanical/aerospace engineering or physics.

An asset would be knowledge in items like spacecraft and payload structures, mechanisms, dragsails, nano satellites, CFRP materials, reflector antennas, multilayer insulation, radiators, electronics, MGSE, coating, 3D printing, structural design and analysis, thermal design and analysis, kinematic analysis, radiation analysis, reliability analysis, production, assembly, alignment, material characterization, environmental testing (static, dynamic, thermal, thermo-elastic, acoustic, metrology), document management, configuration management, quality assurance, contacts in space community.

Candidates should have the ability to deal with customers, sub-contractors, partner companies and internal staff via excellent soft skills like representatively, communicative, mentally strong, ability to delegate tasks, leadership, convincing. They should have the ability to work autonomously, effectively, systematically and cooperatively in a diverse and international team environment and to define and implement solutions in line with team and individual objectives and project deadlines. In addition, candidates should have good analytical, organizational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.

Possibilities:

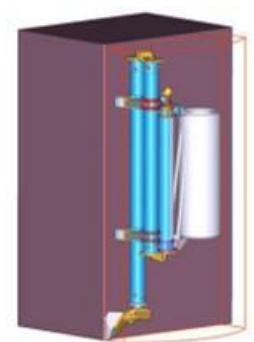
HPS offers the chance to actively take part in the growth of an international operating high technology company but still keeping the friendly working environment of an SME (Small/Medium Enterprises). All HPS staff is continuously involved in company strategy items and can influence the path of HPS growth. Improvement suggestions are highly welcome.

The applicant has the chance to work very close on the one hand to highly experienced analysis staff and on the other hand to medium or young engineers. He/she will be involved in several projects which makes daily life very diversified.

A four-days-per-week contract might be possible. Self-responsible flexibility in working time per day is our company culture. Documented in our Quality Management System is not only the goal to deliver high end technology and to maintain financial health of the company, but also a very high degree of employee satisfaction.

Being part of HPS means to be involved in space missions, having hardware flying around the Earth or contributing to the European exploration of the Universe.

In case of excellent results, a future participation to shares of HPS GmbH might be offered.



We are looking forward to your application (preferred via e-mail):
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