

## Development Engineers

Location: Porto, Portugal

High Performance Structures Gestão e Engenharia Lda. (HPS-PT) is a leading mid-sized space company and central provider of lightweight structures (composite and metal), deployable structures, thermal hardware (like MLI multilayer insulations and re-entry technology) and Mechanical Ground Support Equipment (MGSE) mainly for space applications. Flight hardware is already onboard a telecommunication mission (AlphaSat), a VEGA-launcher, and on the Mars Orbiter (ExoMars 2016). We are currently involved in developments for more than ten further missions including MLI flying to Jupiter and a structural assembly for an instrument onboard the International Space Station ISS.

Located in Porto, HPS-PT is part of the German-Portuguese-Romanian HPS Group and takes care on design, analysis, manufacturing, assembly, test and integration of related hardware. With its outstanding engineering capacities, highest flexibility and customer orientation HPS is one of the fastest growing technology drivers in the European SME industry. Currently HPS Group has a staff of 60 persons, 22 employees in Porto, 30 in Munich and 8 in Bucharest. Main customers of HPS are the European Space Agency (ESA), its system primes Airbus, Thales Alenia Space and OHB, as well as many other large and mid-sized European companies.

Due to our rapid growth and in the light of current and coming projects on composite materials and metal assemblies for flight missions, **we want to enlarge at HPS Portugal our Materials and Processes Development Team by four engineers**. Consequently, we are searching for excellence with the following profile:

### Job Profile:

*As we are looking for 4 new engineers, this job profile is more generic. Should you comply with your interest to one or the other topic, please feel free to contact us:*

Being a Development Engineer, you are responsible for the execution of specific work packages in the frame of development projects on high-end technical hardware. Maintaining the schedule and delivering according to the client specifications are our major goals.

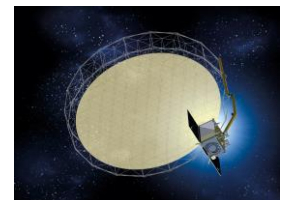
You will perform mechanical designs (partly incl. CAD manufacturing drawings), engineering calculations (hand calculations and/or structural analysis), plan, coordinate & evaluate manufacturing and characterization test campaigns and support project management activities. Reporting of the results is mostly required in form of Technical Notes.

Our relations are international oriented; therefore, occasional travelling is involved in this position, mainly in Europe.

One very important share of the work will concern the development of manufacturing processes for composite parts (struts, small panels) and structures, in collaboration with internal and external development team members.

Therefore you should be enthusiastic in performing manufacturing trials, full of ideas for process improvements, curious on material behaviors and proud on positive test results. The earliest start of the four open jobs range from January 2018 until April 2018!

One of the four new jobs will include between 20% and 50% Product Assurance tasks like hardware inspections, material income inspections, quality reporting, non-conformance control, process control, audits, etc. These tasks will be performed in accordance to processes and procedures defined in our Quality Management Handbook and our associated certification to the standard EN9100:2016.



## Qualification:

### Applicants should have as a minimum:

- More than 4 years of experience in project execution (Preferably experience in Space related projects)
- Knowledge and/or interest in materials and structures engineering
- Knowledge in lightweight constructions for aerospace applications
- Skillful on analytical calculation
- Organized and experienced on activities planning
- Autonomous working approach, accurate working
- Outstanding problem-solving capacity
- Ability and motivation to report the analysis results in respective documentation
- Ability and motivation to present the analysis results in meetings with Customers
- Good knowledge in English (writing and speaking)
- MS office S/W tools (minimum: MS Word, MS Excel, Power Point).
- Master's degree in mechanical, aerospace, chemical and physics engineering
- Loyalty, team spirit and reliability.

### Nice to have:

- 4 years (or more) of relevant experience
- Experience in manufacturing and test engineering
- CAD design capabilities and knowledge in CAD-tools (preferred INVENTOR)
- Knowledge in space flight hardware projects and respective environmental requirements
- Knowledge about ESA ECSS standards and ISO9001 and/or EN9100.
- Experience In project product assurance and hardware inspections
- Knowledge in thermal analyses

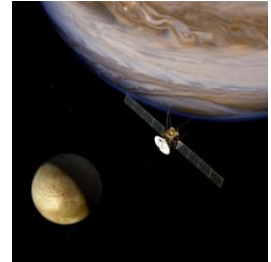
## Possibilities:

We offer the chance to actively take part in the growth of an international operating high technology company but still keeping a family-like 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 staff working for more than 20 years in relevant fields 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.



**We are looking forward to your application until 15<sup>th</sup> January 2018 (preferred via e-mail):**

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