

*OHB Sweden is the largest Swedish satellite manufacturer with over 30 years of space heritage. OHB Sweden has been responsible for all national Swedish missions since the 1980's and was also the prime of the only ESA mission which went to the Moon (SMART-1).*

*OHB Sweden is an end-to-end provider of space systems and develops, builds, tests, and operates satellites for different kinds of space missions within communications, Earth observation, space research, and exploration. OHB Sweden has developed specific expertise within AOCS and Propulsion sub-systems and pioneered autonomous rendezvous and formation flying thanks to the Prisma program. As a Propulsion sub-system provider OHB Sweden has the opportunity to serve all key players of the European Space industry and counts as one of the leaders in Europe in this field. In all domains, OHB Sweden is active in the European and Swedish institutional markets as well as in the commercial market.*

*The headquarters of OHB Sweden in Kista is home to around 90 highly qualified international employees. We see ourselves as an agile and innovative team for which the competence, enthusiasm, and dedication of each team member is a key asset.*

*OHB Sweden is a member of the OHB SE Group which currently employs over 3000 people and is the 3rd largest Space company in Europe.*

We are now looking for an enthusiastic and dedicated,

## **Spacecraft Mechanical Design Engineer**

Building a satellite requires a broad range of expertise, involving analysis, design, manufacturing and testing of both hardware and software. Working at OHB Sweden offers engineers an excellent opportunity to widen their technical skills in essentially all technical domains,

With this in mind, we are looking for a skilled mechanical engineer, who has experience of the complete chain from CAD mechanical design, FEM analysis, generation of production drawings and follow-on testing of the manufactured product.

The work includes initial overall conceptual designs of spacecraft structures and mechanisms, trade-offs, performance analysis, requirements management, finalizing the design, supervising the production (normally performed off-site) and testing the final product. The position also includes interacting with external partners (customers, payload suppliers, etc) in the definition and implementation of mechanical interfaces.

The work environment is dynamic and international with many collaboration partners, mainly in Europe.

We are looking for a structured, motivated and quick-learning team-player, who also has the ability to work independently whilst meeting agreed delivery schedules. The Mechanical Engineer will work in close cooperation with system, electrical, thermal and AIT engineers in the development of our new satellites.

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### **Task description**

- Mechanical, structural and dynamic design using CAD and FEM. FEM analyses are typically in the areas of stress, shock and vibration – particularly random vibration
- Generation of manufacturing drawings from CAD
- Supervising the manufacturing of piece parts, which is typically performed off-site
- Inspecting the manufactured items when delivered to OHB Sweden
- Supporting the on-site assembly of the end product (e.g. spacecraft structure)
- Support the qualification of the subsystems (structures, mechanisms, units, components, actuators). This typically entails defining and designing test specifications, test procedures including test setups, drawings, schematics etc.
- Correlating FE models (fundamental frequencies, damping coefficients etc) with actual test results
- Support future programs and projects with planning and budgeting for the purpose of proposals.
- Design, assembly and test of mechanical ground support equipment (MGSE) required to support integration and test activities.

### **Required qualifications:**

- As a minimum, Bachelor's or Master's Degree in Mechanical Engineering or related disciplines
- At least 5 years of experience in a design and testing environments related to CAD (from design to production), mechanical FEM analysis, and construction
- Experience with FEM analysis, specifically in the areas of random vibration response, shock and loads analysis
- The ability to generate, read and understand mechanical design/analysis reports and Interface Control Documents (ICDs)
- Be able to provide clear and coherent reporting and presentations in the English language
- Fluent in the English language, both spoken and written
- Located in, or willingness to relocate to, Stockholm, Sweden

### **Added advantageous qualifications:**

- Experience in writing test procedures in the areas of vibration and shock
- Experience in requirements management and verification
- Experience with NASTRAN
- Experience with CREO and/or NX (CAD) and Windchill PLM
- Experience in GPS (Geometric Product Specifications) drawing production
- Experience in the Space Business and knowledge of the European Cooperation for Space Standardization (ECSS) is a merit

The Mechanical Design Engineer will work in the Spacecraft department, within the Mechanical/Thermal Group, and report to the Head of Department. Travels may be required (2-3 trips per year primarily within Europe).

If you wish to participate to the development of future space systems, feel confident that your experience and qualifications match the above requirements and want to find yourself in a dynamic and inspiring work environment, then we very much look forward to hearing from you!

Please send your application, including CV and personal letter to: [career@ohb-sweden.se](mailto:career@ohb-sweden.se)

Please mark your application: Spacecraft Mechanical Design Engineer

We look forward to receiving your application!

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