



OHb Italia SpA is acknowledged as one of the leading medium size companies in Europe for space systems integration. It is part of a cluster of European enterprises operating in the aerospace business. Founded in 1981, with headquarters in Milan and excellence centres in Italy, the company employs more than 180 qualified engineers & physicists.

OHb Italia has consolidated expertise, resources and facilities to carry out manufacturing, integration, qualification and flight certification, with a role of Prime Contractor in different fields of activities.

Its success is due to a combination of technical expertise, innovative technologies and low cost solutions, which allow to give customers easy access to space.

The company operates both on the institutional and commercial markets.

Its main customers are space agencies, space authorities and large industrial groups.

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OHb Italia is seeking for its **Satellites** Department in Milan or Rome for immediate start a

### **Senior Mechanical-Thermal Lead Engineer (m/f) Ref. 02\_05\_18**

#### **Your Tasks**

In this position you will take the responsibility as Thermal Mechanical Structural Lead Engineer for the design and development of an HR optical satellite project. Your role is to form the professional link between Thermal, Mechanical and Structural Engineering and the other Engineering fields.

More in detail, your tasks include:

- Establish and control the thermal and mechanical design process within the project team, including preparation of the relevant design, manufacturing and verification documents
- Carry-out design trade-offs in cooperation with System Engineering and other technical disciplines (Optical, Electrical and AOCS Engineering)
- Take part in the flow-down of the technical requirements and budgets from higher-level specification to thermal-mechanical subsystem
- Continuously monitor compliance to technical requirements, budgets and specifications throughout the development process
- Prepare, release and maintain requirement specifications for mechanical and thermal assemblies
- Support evaluation of subcontractors' proposals

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- Plan and support design reviews
- Provide ongoing manufacturing support during spacecraft build for assembly, integration, and test.
- Support detailed tracking spreadsheet for system mass properties (mass, CG, MOIs).
- Research options for appropriate design concepts to comply with mission performance requirements.
- Support qualification plans (acoustic, vibration, shock, static load tests, thermal tests) to verify structural and thermal requirements and correlation to analysis models.

### **Your Qualifications**

- 10+ years of work experience.
- Master of Science in aerospace or mechanical engineering
- Good Proficiency in spoken and written English

### **Preferred Skills and Experience**

- Basic Knowledge of NX, FEA tools and ESATAN TMS
- Demonstrated basic FEA skills for structural analysis (FEMAP/Nastran, Ansys, or others) and good knowledge of mechanical design principles.
- Familiar with applicable space standard (ECSS-E and -Q)
- Experienced with carbon fiber/ aluminum composite honeycomb design / manufacturing techniques
- Experienced in troubleshooting issues and finding solutions
- Experienced with structural and/or thermal testing and correlation of test data to predictions
- Innovative, driven, out of the box thinker, self-motivated to investigate and implement new ideas, and proactive in overcoming obstacles.
- Very strong communication, teamwork and organizational skills.