



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.

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

Power Subsystem Engineer (m/f) Ref. 02_04_18

Your Tasks

- Analysis of the Satellite Mission Requirements from the Customer, delivery of the Electrical Power Budget (Satellite units consumption, Solar Array delivered power, battery charge/discharge cycling, Power Conditioning Unit dissipation) during the various Satellite phases, simulation of possible Operational scenarios.
- Interaction with other subsystems/units responsible (mission, structure, mechanical, thermal, Data Handling, safety, PA and AOCS) for the definition and clarification of the relevant constraints and interfaces, and analyses exchanges
- Choice of the EPS electrical Architecture, design of the Subsystem at high level, sizing of the EPS units (Solar Array (SA), Power Conditioning and Distribution unit (PCDU), Battery(BAT))
- Issue of the EPS Requirement Specification and issue of EPS Design Report, with relevant EPS Electrical scheme, block diagram, high level and IF electrical analysis
- Issue of the power units (SA, PCDU, BAT) procurement specification, taking into account the performed Power/Energy analysis, Concurrent development with the other subsystems (thermal/mechanical constrains, quality requirements, mission requirement, Integration and testing, etc.), and from the requirements coming from the applied space engineering standard (typically ECSS standard)

- Technical evaluation of the received proposal from external suppliers (typically the main space actors in Europe) for the procurement of PCDU, SA and BAT, selection of the suppliers, and their interface as Customer during the whole process of design, development and testing of the units, (review of supplier documentation, performance assessment, units/boards electrical scheme review, units/boards prototype first evaluation, further model developments) so that the procured units fulfill the initial requirements and the designed Subsystem, and can be integrated on the satellite
- Interface toward the Satellite customer (Institutional, such as ESA, or the main Space companies in Europe), in order to demonstrate the adequacy of the proposed EPS design and the fulfilment of the High-level requirements.
- Delivery of the Satellite test plan, and tight interaction with the Integration and Testing team during the Satellite test phase, until the launch.

Your Qualifications

- Master Degree in Electronic Engineering, knowledge of electronic circuits and simulations, DC Converter design and control. Knowledge of circuits and signals Interfaces
- Good interpersonal skills, ability to work in team and to manage client/customer relationship in both directions, ability to manage work overhead and contingency issues
- The ideal candidate will have some years of experience in power electronics design. Working experience in the above-mentioned field, like the knowledge of space standards and documentation are welcomed, but not mandatory.