

Bradford Engineering B.V., a Bradford Space subsidiary, is a Netherlands based supplier of Attitude and Orbit Control Systems (AOCS), Propulsion, Avionics and Thermal solutions for spacecraft. Our expertise in the field of satellite propulsion covers the entire range from cold gas, gas feed systems for electrical thrusters, to chemical propulsion. To support the design and development of our products, we are seeking a:

DESIGN AND ANALYSIS ENGINEER

For the satellite product lines of

BRADFORD ENGINEERING

We are looking for a Design and Analysis Engineer to join Bradford Engineering B.V., a Bradford Space subsidiary, based in the Netherlands and manufacturer of products for the space industry.

Your role

The Design and Analysis Engineer is responsible for the mechanical and thermal design of Bradford's products and systems. He or she works closely with the project core teams to ensure the quality of the products Bradford Engineering is proposing, designing, manufacturing, and testing for its customers. In particular, the Design and Analysis Engineer provides the project core teams with an initial mechanical design of the product or system taking into account mechanical and thermal design requirements and manufacturability of the product. Subsequently, the Design and Analysis Engineer performs a structural and thermal analysis and proactively provides input to improve the design such that overall product requirements are met. The Design and Analysis Engineer is also involved in environmental testing and subsequent result analysis to show that the product fulfills the environmental requirements.

Key responsibilities

The main tasks are, but not limited to:

- Provide the mechanical design of the product.
- Review requirements in particular w.r.t. the environment which the product is exposed to and has to operate in.
- Realize 3D designs according to statements of work.
- Realize BOM's and other relevant project documents.
- Design (test) tooling and fixtures when required.
- Perform detailed structural and thermal design analyses.
- Provide input to design improvement such that requirements are met.
- Provide expert advice on the mechanical and/or thermal design to the project core team.
- Drive failure analyses, root cause analysis and design of experiments to resolve engineering challenges.
- Provide expert knowledge for the interpretation of environmental test results.
- Establish test and results analysis documentation.
- Efficiently manage your tasks to meet project schedule, quality and costs targets.

Essential skills

- MSc-level education in the fields of mechanical engineering or (aero)space engineering.
- ≥ 5 years of relevant experience in design and analysis.
- Expert knowledge of CAD software, preferably Autodesk Inventor.
- Expert knowledge of FEA analyses tools, preferably FEMAP and ESATAN.
- Hands on experience with structural and thermal testing and corresponding results analysis.
- Good understanding of common construction materials used for propulsion systems.
- Excellent communication skills.
- EU nationality.
- Fluent in spoken and written (technical) English (level C1).
- Intermediate level of Dutch (level B1).
- Skilled in Microsoft Office (Word, Excel, Visio, Teams, Outlook).

Strongly valued/desired skills

- Experience in the spaceflight industry, preferably as a satellite equipment supplier.
- Familiarity with ECSS standards.
- Hands on mentality.
- Driving license and willingness to occasionally travel.
- Familiarity with manufacturing processes.

What we can offer in return

We offer a varied job in an exciting industry where you play a big part, in the provision of innovative solutions for satellites in a global market, with a generous number of holiday days and a very international working environment.

Duty station

Heerle, the Netherlands, with occasional travel needed (Heerle is located few minutes from Roosendaal and Bergen op Zoom, 30 minute drive from Breda and Dordrecht, and 50 km from Rotterdam and Antwerp). Possibility to live in Belgium while working at Bradford.

The role is open to candidates of any age, gender and orientation with an EU nationality.

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