HE Space is a successful international space company. For over 30 years, we have been supporting our customers with qualified experts in the field of engineering, science and administration. We are currently looking for a Development Engineer Thermal Control to support our customer in Germany.

Development Engineer Thermal Control

Key Tasks and Responsibilities

As part of the Thermal Analysis and Design Team, you will have the following responsibilities:

- Execution of theoretical investigations, computations and estimations in connection with thermal aspects of spacecraft and space transport systems;
- Establishment and/or discretisation of thermal mathematical models (TMMs) in ESATAN TMS format and/or discretisation of Computational Fluid Dynamics (CFD) models analysis of launcher upper stages and related cavities including application of these models;
- Performance of thermal analyses and / or CFD analyses for new developments (e.g. Ariane 6 Upper Liquid Propulsion Modules (A6-ULPM));
- Thermal investigations and analyses in co-operation with other specialist areas, like e.g. structure mechanics and propulsion systems;
- Thermal analysis and design of components for the A6 ULPM;
- Establishment of thermal environment specifications for A6 ULPM subsystems, components, test plans and specifications, as well as review of existing test plans;
- Participation in thermal tests for verification of existing thermal and/or CFD models;
- Establishment of Thermal and/or CFD Analysis reports as well as generating presentation handouts and verbal presentation of study results to internal and external customers.

Skills & Experience

You will have the following qualifications and relevant experience in the space sector:

- University Degree in Aerospace or Mechanical Engineering;
- Thermal or fluidic analysis and system engineering for spacecraft or launcher systems, with Computational Fluid Dynamics (CFD) analysis of the A6 ULPM cavities, using FLUENT Software;
- Application of ESATAN TMS thermal analysis software;
- Ideally: thermal analysis and design of cryogenic upper stages / upper modules (A5ME and / or A6), knowing the major design driving factors and the - from thermal point of view - most critical areas.
- Fluency in English is mandatory; knowledge of French is an advantage.

This job is located in Bremen. We welcome applicants who are available from March 2017 (or as soon as possible thereafter).

If you think you have what it takes for this job, please send us your CV together with a letter of motivation (both in English and in Word) to Ms Elisa Manfreda at jobs@hespace.com, quoting job DEB-3814 before 10-Feb-17.

An exciting and dynamic international working environment awaits you!

Please note: Due to work permit requirements for this position, please apply only if you are citizen of a European Union state or if you are eligible to obtain a work permit for Germany.