

## *System Thermal and Flow Architect*

Netherlands (NL) : Zuidoost-Noord-Brabant

As a System Thermal and Flow Architect you are responsible for specifying and delivering high level solutions for complex mechatronic systems and modules. The goal is to enable optimal thermal and flow functionality against cost effective engineering solutions.

Your main tasks are related to the Product Generation Process (development process) this includes:

- Feasibility phase; study the Customer Requirements Specifications (CRS) and investigate the feasibility of thermal and flow concepts
- Definition Phase; come up with Description of System Design Requirements and Specifications (SDS).
- System Design Phase; generation of system design concepts
- Come up with well-considered choices, validated against system requirements. Review designs (e.g. via FMEA) with internal and external customers.
- Perform detailed thermal and flow analysis and define measurement setup for function verification.
- System Verification; verification of design and chosen concepts on the specified and agreed requirements.

At least 8 years of experience in creating new equipment concept (or large modules)

Experience with mechanical design principles, dynamic behavior, material properties, contamination control, cleanroom environment, vacuum design rules, particle transport under different circumstances (e.g.) atmospheric and vacuum design rules.

SKILLS: Master degree in Mechanical engineering, Physics or equivalent with a focus on Flow and Temperature control.

Excellent knowledge of (FEM) calculations in the area of thermal management, flow control on liquids and gasses.

Experience with 3D design tools (preferably NX or PRO-E) and team center.

Experience with ANSYS, Hyperworks, Matlab, Simulink, or related development tools. Experience with lithography is a plus.

HEALTH INSURANCE PROVIDED

ACCOMMODATION PROVIDED

TRAVEL PROVIDED: one way travel costs to Holland. Daily travel

Position type: Temporary to hire

Contract type: 6 month; Full-time

Start date: asap

Job vacancy Id: WBS5040218