

Open Vacancy

ANALYSIS ENGINEER - HEAD, BLOCK and Exhaust thermostructural

DEPARTMENT: Computational & Experimental Analysis

The Tasks

The ideal candidate will work in the HEAD, BLOCK and Exhaust thermo-structural team supporting the hardware development by usage of virtual tools. Is required a robust background on thermostructural aspects and good capability modelling by commercial [FEM/multi body analysis software: FESAFE, Abaqus](#).

He/she'll be able to assume the following activities:

- Evaluation of components/system performances by thermo-structural tools
- Use of standardized methods to execute assigned computational analysis projects according the global Analysis catalog.
- Very good knowledge head-block-exhaust and turbo components and their interactions
- Support the design development by an extensive usage of optimization tools
- Minimize the analysis iterations by a good capability on scripting and automation
- Strong collaboration with Engine Development & Validation team for analysis model correlation
- Analyze results, provide expertise and write detailed reports or new analysis procedures
- Work with Lead Analysis Engineer to establish timing and deliverables for each assigned project
- Support colleagues in Technical Center India to effectively execute their job and facilitate their interaction with design team
- Support the Thermo-structural methodology development according to the global capability growth list on powertrain area
- Knowledgeable in the computational analysis activity he is working on, acting as a technical reference for those activities dealing with both internal (within the team) and external (to the team) engineers

Knowledge and education:

- Master's degree in Aerospace, Automotive/Mechanical Engineering or Physics (PhD preferred)
- [Very good knowledge of thermo-structural phenomena based on analysis and/or experimental experience \(3 years working experience in Head-Block-Exhaust manifold or Turbo is preferred\)](#)
- [Knowledge of casting process as plus](#)
- [Knowledge of following SW: FESAFE, Abaqus as mandatory](#)
- [Knowledge of following SW as plus: Tosca/Optistruct/ Hypermesh/Hyperview e Simlab](#)
- Fluent English both spoken and written

Soft skills

- Customer Focus
- Drive for Result
- Problem Solving
- Creativity
- Effective Communication (both written and oral)