

## Open Vacancy

# ANALYSIS ENGINEER - Rotating and Reciprocating thermostructural

DEPARTMENT: Computational & Experimental Analysis

### The Tasks

The ideal candidate will work in the rotating and reciprocating 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: [Hypermesh](#), [Simlab](#), [AVL Excite](#), [Amesim](#), [Abaqus](#), [FeSafe](#), [Matlab](#) or [Python](#).

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 rotating and reciprocating 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 \(3 years working experience in rotating and reciprocating is preferred: piston / conrod / crankshaft / camshaft / torque converter / damper / flywheel\)](#)
- [Bench torsional dynamic activities](#)
- [Bearing lubrication activities](#)
- [Knowledge of Hypermesh, Simlab, AVL Excite, Amesim, Abaqus, FeSafe, Matlab or Python](#)
- Fluent English both spoken and written

Soft skills

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