

CT BRA POG - FEA Specialist

Your tasks

The FEA Specialist carries out the current calculation activity (linked to Dev & RFQ work), as well as the monitoring and implementation of action plans specific to innovation in the field of numerical simulation.

To perform this function, the computer engineer must:

Be an expert in the field of numerical simulation which includes: metal static non linear, metal fatigue, metal optimization, bolts rubber static/dynamic, rubber fatigue and

-Implementation of calculation models (CAD work - Meshing - Job editing) Support the product development engineer in the documentation of all project activities:

- Interpretation of results. Returns of results to development teams in the appropriate language, and formalisation of optimization recommendations.

- Delivery of the calculation reports

- Support the CAD team in using FEA

- Support FEA leader during launch phase of new tools or process. Improve existing modeling methods and standards (e.g. processes, guidelines, tools) valid for all segments in terms of increasing effectivity and efficiency.

- Continues improvement of skills in new technology area.

- Ensure technological benchmarking (software, methodology, scientific...) and evaluate the FEA tools in order to:

- Respond to new internal service needs (design of calculation tools)

- Meet new business needs (product simulation and process)

- Develop numerical prediction methodologies for phenomena associated with CTVC products

- Participate in the elaboration of the FEA research plan

- Optimize existing analytical and numerical models

- Strengthen the predictive aspect of these approaches by defining appropriate testing campaigns

- Develop new models in accordance with the lead-time defined - Train colleagues of FEM/Testing team

- Closer communication with CAD team/PDs during the RFQ and project phase to improve design.

- Advanced written and spoken English to communicate with colleagues from all different regions within the group - Be able to conduct correlation projects in order to improve precision between real life and simulation

- New boundary conditions implementation - vast knowledge of materials used in our products, such as die cast Aluminum, cast iron, rubber, polymers



Job ID
REF74107Z

Field of work
Engineering

Location
Ponta Grossa

Leadership level
Leading Self

Job flexibility
Hybrid Job

Legal Entity
OESL Automotive Brasil LTDA

Your profile

- Bachelor's or Master's degree in Mechanical Engineering, or a related field
- Experience in FEA or a related field

- Experience with multi cultural/country teams
- Excellent communication skills in English
- Experience in structural analysis and simulation

Our offer

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About us

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2022, Continental generated sales of €39.4 billion and currently employs around 200,000 people in 57 countries and markets.

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