

Mechanical Simulation Engineer

Your tasks

- Clarification of technical issues and simulation objectives.
- Development of a simulation plan (boundary conditions, method, tools, suitable parameters, etc.)
- Creation of mechanical simulation cases (including review sessions and traceability)
- Execution of CAE tasks including functional, durability, strength, thermal, noise and vibration, etc.
- Discuss, evaluate, and interpret the CAE results according to objective and technical issues (including recommendation)
- CAE report creation according to test plan (including recommendation)
- Contribute to the development of new products, analysis methodologies, tools, and techniques.
- Proactively discussing requirements and problems with other engineers in the group
- Work proactively, responsibly, professionally, and always in compliance with the company's reporting structure.
- Maintaining and developing personal skills and knowledge to ensure the best results.
- Any other duties as reasonably requested aligned to the job role.

Your profile

- Degree in Mechanical Engineering or equivalent studies.
- Mechanical simulation previous experience.
- Theoretical background of Finite Element Method.
- Theoretical background on Resistance of Materials.
- Theoretical and practical aspects of Fatigue of Mechanisms
- Proficiency in Abaqus and Altair/Siemens tools as Hypermesh and Optistruct;
- MS Office in general, advanced level on Excel and PowerPoint.
- English, Advanced Level.
- Production Processes Knowledge (Stamping, Casting, Machining, Assembly, etc.)
- Product Development Knowledge (Phases, Milestones, etc.)
- Mechanical Systems Knowledge.
- Problem Resolution Capabilities.
- Methodical, Mathematical and Analytical Abilities, Attention to Details.
- Capability of Presenting Test Results, Internal and Customer.

Our offer

Would be a plus:



Job ID
REF11365Y

Field of work
Engineering

Location
Várzea Paulista

Leadership level
Leading Self

Legal Entity
AUMOVIO Brazil Ltda.

- APQP & FMEA knowledge.
- Programming skills, preference on Python.
- Instrumentation (pressure, temperature, force, acceleration, acquisition systems, etc.)
- Product Development Knowledge (Phases, Milestones, etc.).

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

About us

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.