

FEA Simulation Engineer

Your tasks

HOW YOU WILL MAKE AN IMPACT

- Support strategic planning and deployment of CAE modeling processes to accelerate product development.
- Programming skills to develop robust solution templates, GUIs, and post process output results.
- Translate actual problem to FEA model, perform what if studies, and select best solution.
- Actively participate in global multi-disciplinary product development, process improvement & problem-solving teams.
- Interpret FEA results and convert them to design suggestions that will guide product development teams.
- Use FEA to investigate opportunities in reducing cost & limit required testing.
- Ability to work with lab personnel on test development (Quasi-static and Dynamic).
- Capable of using solid model software (e.g., SolidWorks or Autodesk Inventor) for special test fixture development.
- Correlate FEA model with field observations and/or lab results.
- Some travel is required to maintain active contact with plant groups, suppliers & customers.
- Documentation of analysis are expected in the form of detailed technical reports, presentations & management updates.

Your profile

WHAT YOU BRING TO THE ROLE

- Bachelor's degree in mechanical engineering or engineering mechanics with FEA background.
- Minimum of 3 years of relevant professional experience.
- Prior experience in FEA.
- Highly motivated and results driven individual.
- Strong organizational and project management skills.
- Ability to communicate effectively with peers & management.
- Exceptional problem-solving skills.
- Strong interpersonal skills & ability to work effectively as a member of domestic or international teams.
- Experienced in using Abaqus software (including CAE, Standard, & Explicit).
- Trained in the use of Microsoft Office products including Word, Excel and PowerPoint.
- Proficiency with Windows and Linux operating systems.
- An understanding of product development process & quality systems.
- Legal authorization to work in the U.S. is required. We will not sponsor individuals for employment visas now or in the future for this job posting.
- Continental is not able to pay relocation expenses for this



Job ID
REF80138Y

Field of work
Engineering

Location
Fairlawn

Leadership level
Leading Self

Job flexibility
Hybrid Job

Legal Entity
ContiTech USA, Inc.

opportunity.

ADDITIONAL WAYS TO STAND OUT

- Master's degree in mechanical engineering or engineering mechanics with FEA background.
- Ansys FEA Software.
- Microsoft Excel Programming Experience.
- MATLAB Programming Experience and/or Python Scripting Language.
- Hyperelastic Material Test Results Interpretation.
- Graphical User Interface (GUI) Development Experience.
- Excellent understanding of Finite Element Analysis, preferably in rubber industry.

Our offer

THE PERKS

- Immediate Benefits
- Robust Total Rewards Package
- Paid Time Off
- Volunteer Time Off
- Tuition Assistance
- Employee Discounts, including tire discounts.
- Competitive Bonus Programs
- Employee 401k Match
- Diverse & Inclusive Work Environment with 20+ Employee Resource groups.
- Hybrid Work
- Employee Assistance Program
- Future Growth Opportunities, including personal and professional.
- And many more benefits that come with working for a global industry leader!

EEO-Statement:

EEO / Disabled / Protected Veteran Employer. Continental offers equal employment opportunities to all qualified individuals, without regard to unlawful consideration to race, color, sex, sexual orientation, gender identity, age, religion, national origin, disability, veteran status, or any other status protected by applicable law. In addition, as a federal contractor, Continental complies with government regulations, including affirmative action responsibilities for qualified individuals with a disability and protected veterans, where they apply. To be considered, you must apply for a specific position for which Continental has a current posted job opening. Qualifying applications will be considered only for the specific opening(s) to which you apply. If you would like to be considered for additional or future job openings, we encourage you to reapply for other opportunities as they become available. Further, Continental provides reasonable accommodations to qualified individuals with a disability. If you need assistance in the application process, please reply to Careers@conti-na.com or contact US Recruiting at 248.393.5566. This telephone line and email address are reserved solely for job seekers with disabilities requesting accessibility assistance or an accommodation in the job application process. Please do not call about the status of your job application, if you do not require

accessibility assistance or an accommodation. Messages left for other purposes, such as following up on an application or non-disability related technical issues, will not receive a call back.

Ready to drive with Continental? Take the first step and fill in the online application.

About us

THE COMPANY

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 2023, Continental generated sales of €41.4 billion and currently employs around 200,000 people in 56 countries and markets.

ContiTech is one of the world's leading industry specialists. The Continental group sector offers its customers connected, environment-friendly, safe, and convenient industry and service solutions using a range of materials for off-highway applications, on rails and roads, in the air, under and above the ground, in industrial environments, for the food sector and the furniture industry. With about 42,000 employees in more than 40 countries and sales of some 6.8 billion euros (2023), the global industrial partner is active with core branches in Asia, Europe and North and South America.

Are you ready to shape the future with us?