**CAE Durability Analyst**

**Location: Livonia, MI**

**Remove Posting: August 28, 2019**

At Roush, we fuse technology and engineering to provide product development solutions to customers in a diverse range of industries. Widely recognized for providing engineering, testing, prototype, and manufacturing services to the transportation industry, Roush also provides significant support to the aerospace, defense and theme park industries.  With over 4,000 employees in facilities throughout the United States, Europe, Asia, and South America, our unique combination of creativity and tenacity activates big ideas on a global stage.  We want motivated, ambitious people who put the needs of our customers first, bring creativity to their work and will do whatever it takes to achieve success.  If you share our passion for providing innovative solutions to complex challenges, we want you on our team.

Are you a CAE Durability Analyst looking for a dynamic company to join? Due to our steady growth, we have an immediate opening for a CAE Durability Analyst who will be involved in many aspects of the NVH and durability performance of products related to various industries. This position is located at our Livonia, MI facility.

**Responsibilities:**

* Conduct CAE analysis independently under the supervision of a Lead Engineer using appropriate CAE tools
* Support analysis with sound engineering explanation and hand calculations
* Be the interface with customers to complete tasks with a high level of quality and within established timelines
* Review results with Lead Engineer and share with customers
* Recommend alternative analysis approaches and CAE counter measures to meet functional targets
* Develop and contribute to existing or new analysis capabilities as a part of continuous improvement
* Maintain pertinent information in assigned location and perform data cleanup as necessary

**Qualifications**

* Bachelor’s degree in mechanical engineering with 5 years of relevant CAE experience, or a master’s degree in engineering with 3 years of relevant CAE experience
* Ability to confidently interact with individuals at all levels of authority and maintain composure in all situations
* Strong fundamental knowledge in strength of materials (metals and composites), vibration concepts, and material failure theory
* Experience in strength, stiffness and stress (including thermal) in linear and nonlinear (material and contact) domains
* Experience in size, shape and other optimization analysis using optimization tools
* Full vehicle analysis along with ‘CAE to Test’ correlation experience
* Experience with finite element pre-processors, solvers, and post-processors: Altair Hyperworks, ANSA, NASTRAN, ABAQUS, OPTISTRUCT, nCode and FEMFAT
* Excellent oral and written communications not limited to MS Office products
* Ability to deliver analysis on projects with tight timing constraints
* Ability to root cause problems and follow up with design solutions
* Positive attitude, task oriented, and a team player
* Willing to travel domestically

To apply, please visit the Roush careers page by clicking on this link: <https://roush.applytojob.com>

Our Full-Time benefits include: medical, dental, vision, life insurance, earned sick time, STD, LTD, 401K, tuition reimbursement, paid vacation, and paid holidays.

Visit our website:  [www.roush.com](http://www.roush.com)

Like us on Facebook: [www.facebook.com/RoushCareers](http://www.facebook.com/RoushCareers)

Roush is an EO employer – Veterans/Disabled and other protected categories

If you need a reasonable accommodation for our employment application process due to disability, please contact Roush Talent Acquisition at 734-779-7087.