

Finite Element Analyst Wanted

Convergent Manufacturing Technologies (www.convergent-mfg.com) is a world-leader in manufacturing simulation of composite structures with an international customer base. Convergent develops finite element based engineering simulation software and provide engineering support services to leading aerospace companies world-wide.

Position Overview:

This position will be reporting directly to the director of Convergent Manufacturing Technologies US. The successful candidate is a dynamic, self-motivated individual who can interact with customers, define statements of work, develop appropriate finite element models, perform simulations, and evaluate, synthesize and report results to the customer. The position may involve conducting training courses in the use of Convergent software tools, technical customer support, experimental characterization of model inputs and model validation.

The successful candidate will have a good mathematical understanding of finite element analysis as well as some experience in using commercial finite element software in an industrial setting. Experience with aerospace and/or with composite materials is an asset. The position will initially involve some training in Vancouver, Canada.

Key Responsibilities include but not limited to the following:

- Perform engineering duties under supervision of the director
- Take responsibility for engineering tasks, and perform associated analysis
- Liaise with other members of the project team, in the US and in Canada
- Set up, run and evaluate results from finite element analysis
- Writing project reports and preparing presentations
- Interact with customers and develop statements of work based on customer needs
- Conduct training courses in the use of Convergent software
- Provide customer support with respect to Convergent software
- Contribute to the Company Technical and Marketing Publications and presentations
- Work with the software development group in guiding software development

Required and Preferred Experience:

- Understanding of the fundamentals of Finite Element Analysis
- Strong analytical and problem solving skills
- Ability to work from first principles
- Technical writing skills
- Working knowledge of ABAQUS and CATIA preferred
- Experience with modelling of composite structures preferred
- Post graduate experience not required but would be an asset

Preferred Software Experience:

- Finite element software such as ABAQUS, ANSYS, NASTRAN, MARC etc.
- CAD software such as CATIA and Solidworks
- Programming in Python and FORTRAN
- Comfortable working in Windows and Linux environments
- MS Word PowerPoint and Excel

Educational Qualifications:

- Undergraduate or graduate degree in Engineering, with an emphasis on finite element or numerical analysis. An understanding of finite element fundamentals is essential.

Other Skills:

- Organizational/Multi-Task Skills – An independent self-starter; able to allocate one's time effectively; detail oriented; efficient and organized; works well under pressure
- Relationship Skills – A team player with an outgoing personality.

Convergent offers a competitive salary and a benefit package.

Please note that some of the work may be subject to ITAR regulations. Prior to receiving an offer of employment, you must consent to, and pass, a security assessment which includes a criminal background check. Applicant must be a US person.

If you are interested and qualified in this position, please submit your cover letter and resume to careers@convergent-mfg.com. **Please quote job number 20150501 in the subject of your email.** While all submissions will be assessed only suitable candidates will be contacted.