ALBANY ENGINEERED COMPOSITES, INC. / R&T Engineer - Simulation Software Developer

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Tracking Code

291020-723

Job Description

The Engineer with a simulation software development focus is responsible for assisting with internal Research and Technology (R&T) projects directed toward developing simulation software that will be used by other engineers performing structural and/or material design and analysis of aerospace composite structures.

Key Duties/Responsibilities:

1. Design, program, test and document engineering application software for structural design, analysis, and (on rare occasions) manufacturing tasks.
2. Perform structural analysis using commercial FEA software to support various R&T initiatives.
3. Maintain and modify legacy software.
4. Work closely with R&T engineers to determine requirements for engineering applications.
5. Define acceptance criteria and execute verification testing prior to deployment of new software.
6. Identify opportunities to improve the design, analysis, and/or manufacturing of products through the use of more robust/intuitive software.

Albany Engineered Composites, Inc. is an AA/EEO/M/F/V/D employer.

Required Skills

- BS Engineering degree, Mechanical or Aerospace Engineering preferred; equivalent experience may be considered
- 2+ year’s relevant experience or advanced degree desired
- Experience with Finite Element Analysis theory and applications of structural and material modeling
- Experience in software development and working knowledge of an object oriented programming language (C++ preferred)
- Experience in following areas of software development is considered a plus:
  - Visualization: OpenGL, VTK
  - GUI: MFC, .NET, Qt, wxWidgets, GTK+
  - Geometric modeling kernels: ACIS, Parasolid, OpenCASCADE
- Strong understanding of numerical analysis techniques
- Experience with commercial FEA software packages such as Abaqus, Ansys, Nastran
- Working knowledge of 3D solid modeling with CAD software like Solidworks, CATIA, NX etc.
- Experience with Linux operating system desired
- Experience with Microsoft VisualStudio is desired
- MSOffice proficient
- Excellent written and oral communication
- Working knowledge of the following are considered a plus:
  - Aerospace structures
  - Design and analysis of composite structures
  - Textile processes
- Proven problem solving skills in teamwork setting
- Willingness to perform “hands-on” work in dynamic work setting
- Action oriented and results driven
- Strong decision-making with ability to set and balance priorities
- Customer focus
- Attention to detail

Job Location

Rochester, NH US