

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

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Tracking Code

291029-723

Job Description

The Software Development Engineer is responsible for planning, organizing, and executing internal Research and Technology (R&T) projects primarily directed toward developing preform design software that will be used by other engineers performing structural and/or material design and analysis of 3D woven composites. In rare cases, supporting development of human/machine interface (HMI) software for manufacturing equipment may be necessary.

Key Duties/Responsibilities:

1. Design, program, and document engineering application software for structural design, analysis, and/or manufacturing tasks.
2. Maintain and modify legacy software.
3. Work closely with design and manufacturing engineers to determine requirements for engineering applications and HMI's.
4. Define acceptance criteria and execute verification testing prior to deployment of new software.
5. Identify opportunities to improve the design, analysis, and/or manufacturing of products through the use of more robust/intuitive software.
6. Provide engineering/technical project updates and communications as needed by internal and external customers.
7. Provide mentoring and technical leadership to the engineering organization in relevant areas of expertise. Identify and support implementation of organizational process improvement initiatives.

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

Required Skills

- Expertise in an object oriented programming language (preferably C++).
- Experience with Microsoft Visual Studio or any equivalent development environment is required.
- Working knowledge of GUI application development using toolkits such as MFC, .NET, Qt, wxWidgets, GTK+.
- Experience in following areas of software development is considered a strong plus:
 - 3D Visualization and Graphics: OpenGL, VTK.
 - Geometric modeling kernels: ACIS, Parasolid, OpenCASCADE.
- Familiarity with 3D solid modeling with CAD software like Solidworks, CATIA, NX etc is considered a plus.
- MSOffice proficient: Excellent written and oral communication.
- Experience with an HMI development environment such as Citect, or LabView is a plus.
- Working knowledge of the Design and analysis of composite structures and textile processes is considered a strong plus.
- 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

Required Experience

- BS Engineering degree, ME/AE/EE/CS preferred; equivalent experience may be considered.
- 3+ years of relevant experience in software development.
- Experience GUI application development (preferably engineering design software development with 3D graphics).

Job Location

Rochester, NH US