



Description

Center Street Technologies: Protecting our nation by building the *FUTURE NOW!*

Center Street Technologies is hiring for a Principal Application Design Engineer – Additive Manufacturing

The focus of the project/program will be for the advancement of the hybrid (additive and subtractive) manufacturing. Complete digital twin creation (new and reversed engineered with scanning) of service environment, manufacturing process (additive and subtractive), material allowable, analysis and validation. Simulation of additive (polymer extrusion), subtractive operations, controls of key performance parameters (manufacturing) that effect design. Validation of physical to virtual applications and closing the gap of what is needed for digital twin authentication. Strong technical background with CAD/CAM/CAE software and the application to structural design/performance. Owner of the digital twin. Applies systems engineering for requirements creation and V&V of those requirements.

In This Role You Will Be Responsible For

- Achieving Results with New Technologies: Digitized manufacturing/ Industry 4.0, IoT, Machine Learning, Augmented Reality, 3D/ Digital Product Creation, Modeling and Simulation, Blockchain.
- Building Company Digital Competencies - View of the future, Digital mindset with imperatives, Design thinking, Digital talent and culture, and Digital skills and capabilities.
- Smart, connected operations & products, digitization & digital twin, performance-based connected design, and leverage collected data.
- Designing, implementing and operating digital manufacturing execution systems and processes.
- Numerical analysis including fluid and structural (CFD, FEA and Machine Kinematics)
- Ultimate responsibility for the leadership and performance of all individuals involved in the advanced Application Design development. This includes the authority to hire and dismiss employees under his / her area of responsibility as the candidate deems appropriate
- Working with external system providers like CAD/CAM/CAE software vendors, sensors and equipment partners to understand and act on changes from vendor offerings continuously building vertical expertise, staying abreast of emerging capabilities in additive/subtractive manufacturing.



What's In It For You

Our employees play an active role in strengthening the quality of life where we live and work by volunteering. Here are some of the benefits you can enjoy:

- Reimbursed relocation expenses
- Medical
- Dental
- 401k
- Paid time off
- Work/life balance
- Career development
- Mentorship opportunities

Basic Qualifications

- Bachelor's degree with 10+ years relevant experience or Master's degree with 5+ years of relevant experience
- Demonstrated technical and people leadership experience
- Experience in a highly collaborative and sharing environment
- Demonstrated technical leadership in Advanced Manufacturing Application and Design Engineering
- Experience with development methodology and agile metrics
- Demonstrated corrective action and problem-solving skills

Desired Skills

- Experience in the field of manufacturing technologies
- Knowledge of CAD/CAE/CAM
- Knowledge of engineering systems, processes, controls, and quality best practices
- Experience with the successful enablement of AM parts designed for light-weighting, topology optimization, and lattice design structures
- Incorporate manufacturability feedback into designs to streamline machining and assembly of tools
- Coordinate data management
- Experience with AM software packages, including simulation, slicing, and packing
- Experience with operating various AM machines and related post-processing equipment
- Experience with leadership positions in design/analysis engineering with focus on Additive Manufacturing



- Knowledge of all mechanical engineering standards, material specifications, and participation in industry consortium's
- Excellent written and oral communication skills with experience engaging and presenting in executive level meetings
- Ability to obtain Special Program Access
- Cultural Catalyst - Demonstrated ability to effectively work and lead a culture based on integrity, respect, and responsibility.

Job Qualifications

BASIC QUALIFICATIONS:

Center Street Technologies is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.

Join us at Center Street Technologies, where our mission is to provide technologies that keep us safe. Our customers tackle the hardest missions. Those that demand extraordinary amounts of courage, resilience and precision. They're dangerous. Critical. Sometimes they even provide an opportunity to change the world and save lives. Those are the missions we care about.

As a leading technology innovation company, Center Street's team works with leading U.S. partners to bring proven performance to our customers' toughest challenges. Center Street Technologies is located in Youngstown Ohio, home of America Makes, The National Additive Manufacturing Innovation Institute.

Experience Level

Experienced Professional

Seniority Level

Principal

Industry

- Advanced Manufacturing
- Advanced Manufacturing Application and Design Engineering