

Additive Manufacturing Engineer

Education

Required: M.S. in Mechanical Engineering or Material Science.

Experience

Minimum 1 year experience in Additive Manufacturing field.

Job Description

Sentient Science Corporation, with offices in Buffalo, New York, and West Lafayette, IN, is a leader in predicting the durability and reliability of complex physical systems.

The company's technology works by modeling and simulating components and full systems of high value aerospace, defense, rail, industrial and renewable energy equipment. Our simulation and physics-based models enable design and qualification of new components, and asset monitoring and management of existing installed components to reduce costs of design, qualification, and operation.

We are seeking a highly motivated engineer with background and expertise in additive manufacturing (AM), optimization, and simulation to work on projects in computational modeling of AM build process and in-situ inspection to detect defects during build process. Also, work on optimization analysis to increase geometry accuracy and performance. The candidate will work with the Sentient team for commercial AM software development and validation.

Compensation will be commensurate with experience. Additionally, Sentient offers competitive benefits and a relocation package.

Required Skills

- M.S. in Materials Science, Mechanical Engineering, or related fields.
- Background and expertise in additive manufacturing materials and processes, and in-process monitoring techniques to detect defects
- Experience with Python, plus C or other programming languages
- Experience with Finite Element Analysis

Preferred Skills

- Familiarity with optimization analysis, algorithms, and methods
- Familiarity with different inspection methods for in-process (during AM build) and field (in-service) inspection
- Experience with government projects
- Experience with geometric modeling
- Strong writing and communication skills

Benefits:

- Unlimited paid-time-off
- Flexible working hours

- Fully remote option available from anywhere, preferably US and Spain
- Employer-sponsored health insurance
- Our commitment to inclusion across race, gender, age, religion, identity, and experience drives us forward every day

Please submit your resume to Behrooz Jalalahmadi, VP of Additive Manufacturing and Life Prediction Technologies, at bjalalahmadi@sentientscience.com.