MECHANICAL ENGINEER, FULL-TIME
ON-SITE, CINCINNATI, OHIO

JOB RESPONSIBILITIES

1. 3D Printing Operation and Design:
- *Create procedures for the safe and optimal operate and maintenance 3D printers*
- *Troubleshoot issues as they arise and implement solutions to minimize downtime.*

2. Prototyping and Design Support:
- *Collaborate with engineering teams to translate design concepts into functional prototypes using additive manufacturing techniques.*
- *Assist in the iteration and refinement of prototype designs based on feedback and testing results.*

3. Mechanical Testing:
- *Conduct mechanical tests on various materials and components using Instron test frames.*
- *Prepare test specimens according to established procedures and standards.*
- *Record and analyze test data, identifying trends and anomalies for further investigation.*

4. Documentation and Reporting:
- *Maintain detailed records of experimental procedures, observations, and results.*
- *Generate technical reports summarizing findings and conclusions for review by senior engineers.*

5. Safety and Compliance:
- *Adhere to all safety protocols and guidelines when operating machinery and handling materials.*
- *Ensure compliance with quality standards and regulations applicable to additive manufacturing and mechanical testing processes.*

QUALIFICATIONS

- *Bachelor's or Master's degree in Mechanical Engineering or related field.*
- *Familiarity with additive manufacturing processes including FDM, SLA, SLS, DMLS, and binder jet.*
- *Familiarity with CAD software for design and prototyping (e.g., SolidWorks, Autodesk Fusion360).*
- *Familiarity with basic engineering analysis tools (FEA, CFD, etc.)*
- *Strong mechanical aptitude and hands-on experience with laboratory equipment.*
- *Excellent attention to detail and ability to follow established procedures.*
- *Effective communication skills and ability to work collaboratively in a team environment.*

PREFERRED QUALIFICATIONS

- *Experience with relevant software like Python, R, and MATLAB, and using frameworks for machine learning, data analysis, and scientific computing.*
- *Experience designing engineering analysis projects such as FEA and CFD, with strong foundational understanding of the underlying math being used. Experience with using such techniques for optimization is also preferred.*
- *Experience designing experiments for novel processes/materials.*
- *Experience designing data collection systems for physical tests.*
- *Prior experience with vibration analysis, both through computation and physical testing.*
- *Prior experience with Mechanical Load Test Frames (i.e. Instrons) or mechanical testing methods.*

BENEFITS

HIGH GROWTH & DYNAMIC START-UP - STOCK OPTIONS - OPPORTUNITY FOR ADVANCEMENT & LEARNING - HEALTH, DENTAL, AND VISION INSURANCE - PAID TIME OFF