vixiv

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TECHNICAL ENGINEERING INTERN

SUMMER 2025, ON-SITE, CINCINNATI, OHIO

JOB RESPONSIBILITIES

1. 3D Printing Operation:

- *Operate and maintain 3D printers, ensuring optimal performance and quality output.*
- *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

- *Currently enrolled in a bachelor's or master's degree program in Mechanical Engineering or related field.*
- *Basic understanding of additive manufacturing principles and techniques.*
- *Familiarity with CAD software for design and prototyping (e.g., SolidWorks, Autodesk Fusion360).*
- *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.*
- *Prior experience with Mechanical Load Test Frames (i.e. Instrons) or mechanical testing methods is a plus, but not required.*

BENEFITS

HANDS-ON EXPERIENCE WITH STATE-OF-THE-ART ADDITIVE MANUFACTURING TECHNOLOGY.

EXPOSURE TO MECHANICAL TESTING METHODOLOGIES AND INSTRUMENTATION.

MENTORSHIP FROM EXPERIENCED ENGINEERS AND PROFESSIONALS IN THE FIELD.

NETWORKING OPPORTUNITIES WITHIN THE INDUSTRY AND POTENTIAL FOR CAREER ADVANCEMENT.