



## Ph.D./Master Student Position in Metal Additive Manufacturing

Department: Mechanical and Aerospace Engineering

Start Date: Summer/Fall 2024

Deadline: Open until filled.

The [Smart Manufacturing Advancement and Logistics Technology](#) (SMALT) laboratory at the University of Dayton is excited to welcome a new Ph.D. or MS student researcher in Summer/Fall 2024. Our lab is dedicated to pushing the boundaries of metal additive manufacturing through innovative technologies.

### Job Responsibility

We're looking for a candidate who is genuinely passionate about the following areas:

- i. Engaging in research related to Computational Mechanics, Computational Fluid Dynamics, and Mechanics Informed Deep Learning.
- ii. Conducting hands-on experimentation in Metal Additive Manufacturing, along with sensing and data analysis.
- iii. Writing efficient and clear code in C++, Python and using Git for version control.
- iv. Working with high-performance computing within Linux OS environments.
- v. Producing academic papers, delivering compelling presentations, and contributing to peer-reviewed journals and conferences.
- vi. Participating in scientific conferences to stay abreast of the latest developments in the field.
- vii. Demonstrating strong communication skills, both in writing and verbally.

This role is an excellent opportunity for someone looking to make a significant impact in the field of metal additive manufacturing technology. We're excited to see how your expertise and enthusiasm can contribute to our lab's vision and goals.

### Minimum Requirements

Interested applicants must meet the minimum criteria for admission to the Mechanical and Aerospace Engineering Department at the University of Dayton. International students must meet English language test requirements. The university accepts a range of English Proficiency Tests, details of which is available [here](#). Information about admission is available [here](#).

### Application Procedure

Apply via email to Prof. Abdullah Al Amin at [aamin1@udayton.edu](mailto:aamin1@udayton.edu) with the following documents

- i. Curriculum Vitae (CV)
- ii. Transcripts from BS/MS Degree
- iii. Relevant research publications, if any.
- iv. Research/Scientific achievements, if any.

The University of Dayton is ranked #37 as the Best Engineering Graduate School program in the US, with an Aerospace Engineering ranking of #47 and a Mechanical Engineering ranking of #111 by US News report. The University offers world-class research opportunities in collaboration with the University of Dayton Research Institute (UDRI). The potential to collaborate with the Wright-Patterson Air Force Base at Dayton, OH, also offers exciting research opportunities for students of the University of Dayton. Dayton is the birthplace of Orville and Wilbur Wright, who designed, manufactured, and tested the flying machine with which they taught the world how to fly!