

Opportunity Title: ORNL Additive Manufacturing Post-Bachelor's Research Associate

Opportunity Reference Code: ORNL19-55-ETSD

Organization Oak Ridge National Laboratory (ORNL)

Reference Code ORNL19-55-ETSD

Description Oak Ridge National Laboratory (ORNL) is the largest US Department of Energy science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy, environment, and security.

The Manufacturing Demonstration Facility within the Energy and Transportation Science Division is seeking a Post-Bachelor's Research Associate to focus on system and process development for reactive polymer additive manufacturing (AM). The primary goals of this project are to scale up from small to medium, and finally, to large-scale process improvement for part property optimization and system development for increased throughput. Additional work will be done on alloy and process development for direct metal write additive manufacturing. Opportunities to learn about and perform part testing and analysis will be available. This program is strongly tied with industrial partners, and communications with partners are required including presentations, remote and on-site meetings, and report writing. The Research Associate is strongly encouraged to publish results in peer reviewed journals.

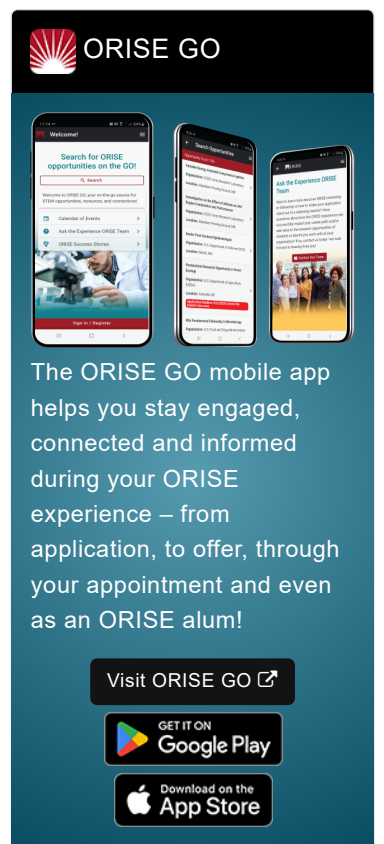
Qualifications The candidate should have a bachelor's degree in mechanical engineering, electrical engineering, or another related field with experience in data acquisition and controls.

Preferred:

- Experience with material handling and safety procedures
- Experience with technical writing for reports, invention disclosures, and scientific papers
- A familiarity with programming and scripting languages related to additive manufacturing and data acquisition including LabVIEW and G Code
- Experience with user end operations along with routine maintenance of custom AM equipment.


Living in East Tennessee: While the opportunity to work at ORNL is an amazing experience in itself, it's easy to overlook everything else East Tennessee has to offer if you haven't had the opportunity to spend time here. From spending your weekends downtown at Knoxville's farmers market, the Rhythm n' Blooms Music Festival, or the Dogwood Arts Festival, to some of the best hiking, kayaking, and camping in the U.S, East Tennessee has something to offer everyone.


The ORNL Post-Bachelor's Research Associates Program is administered by Oak Ridge Associated Universities through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).




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Associate

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| Eligibility | <ul style="list-style-type: none">• Degree: Bachelor's Degree received within the last 36 month(s). |
| Requirements | <ul style="list-style-type: none">• Discipline(s):<ul style="list-style-type: none">◦ Engineering (Z )• Age: Must be 18 years of age |

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