

Postdoctoral Research Associate  
University of North Texas

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Posted Oct. 15, 2021, set to expire Jul. 7, 2022

<b>Job Title</b>	Postdoctoral Research Associate
<b>Department</b>	UNT-Ctr Agile & Adaptive Add. Mfg-190405
<b>Institution</b>	University of North Texas Denton, Texas
<b>Date Posted</b>	Oct. 15, 2021
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Graduate Student Post-Doc
<b>Academic Field(s)</b>	Sciences - General
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**Job Description**

The Post-Doctorate Research Associate (PDRA) role is primarily work with existing experimental setups and develop methods for in-situ diagnostic and monitoring additive manufacturing (AM) processes toward the 3D printing of metal alloys and ceramics within CAAAM. The PDRA will work with the faculty across various departments with inter-disciplinary approach to AM. The primary responsibility of this position is to develop and use optical and acoustic imaging and spectroscopic tools to monitor AM processing of metal alloy and ceramic powders using direct energy deposition and powder bed laser sintering. Familiarity with one or more material diagnostic techniques such as infrared imaging and spectroscopy, thermal imaging, Raman spectroscopy for metals and ceramics, plasma emission spectroscopy, non-destructive ultrasonic spectroscopy and testing of materials, transient laser spectroscopy as well as other diagnostic methods will be preferred. The candidate will assist in advancing necessary instrumentation for data collection and analysis, integrating process diagnostics with closed-loop process control of AM platforms, and work with fellow researchers to implement machine learning algorithms based on in-situ data collection and analysis. The position is



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also expected to provide technical expertise and support to graduate and undergraduate students, assist/lead preparation of research proposals and scientific/technical papers and presentations.

### **Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### **Contact**

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