

Call for Papers

The AIAA Materials Technical Committee is sponsoring a special session on
Materials and Design for Additive Manufacturing

AIAA SciTech 2020

6–10 January 2020

Hyatt Regency Orlando

Orlando, Florida

The AIAA (American Institute of Aeronautics and Astronautics) Materials Technical Committee is very pleased to announce a call for papers to be presented in special sessions on **Materials and Design for Additive Manufacturing** within the AIAA SciTech conference. These sessions will examine advances in Additive Manufacturing, also sometimes known as 3D Printing. Any materials-related aspect of additive manufacturing that is relevant to aerospace is acceptable for papers, including:

- Materials and material property development (polymers, metals, ceramics, fibers)
- Modeling and experimentation of predictive relationships between the processing parameters, material composition, and resulting microstructure
- Design and innovative applications
- Machines and processing
- Process monitoring and control methods
- In-space additive manufacturing
- Testing and Inspection
- Materials discipline capabilities for certification

To this end, the Materials Technical Committee is soliciting papers with recent research, technological advancements, and systems level perspectives in the above areas. The committee welcomes submissions from government, industry, academic, and small businesses.

Extended abstracts of no less than 1,000 words are due **June 11, 2019**

Author notification of paper acceptance on or about **August 30, 2019**

Final manuscript due **December 2, 2019**

Detailed abstract preparation instructions and policies can be found at

<http://www.aiaa-scitech.org/CallForPapers/>

Make sure to select the “Special Sessions” option during submission

Please notify us if you are planning to submit an abstract, so that we can ensure that it is included in these sessions. For more information contact one of the following organizers:

Dr. Joseph H. Koo

The University of Texas at Austin

jkoo@austin.utexas.edu

Dr. Steven Wanthal

The Boeing Company

steven.wanthal@boeing.com

Call for Papers

The AIAA Structures and Materials Technical Committees are sponsoring a special session on

Applications of Artificial Intelligence and Machine Learning to Problems in Structures and Materials

AIAA SciTech 2020

6-10 January 2020

Hyatt Regency Orlando

Orlando, Florida

The AIAA (American Institute of Aeronautics and Astronautics) Structures and Materials Technical Committees are pleased to announce a call for papers to be presented in special sessions on **Applications of Artificial Intelligence and Machine Learning to Problems in Structures and Materials** within the AIAA SciTech Forum.

Artificial Intelligence and machine learning (deep learning included) technologies offer the potential to revolutionize and streamline current processes to develop and qualify materials, as well as improve our design process for aerospace structures. These sessions will examine applications of various artificial intelligence and machine learning technologies to further the development of new materials and structural, along with the associated design and qualification/certification. Abstracts are sought covering recent research, technological advancements, and systems level perspectives in the above areas. The committee welcomes submissions from government, industry, academic, and small businesses.

Extended abstracts of no less than 1,000 words are due **June 11, 2019**

Final manuscript due **December 2, 2019**

Detailed abstract preparation instructions and policies can be found

<https://scitech.aiaa.org/callforpapers>

Make sure to select the “Special Sessions” option during submission

Please notify us if you are planning to submit an abstract. For more information contact one of the following organizers:

Dr. Wenbin Yu
Purdue University
wenbinyu@purdue.edu

Dr. Steven Wanthal
The Boeing Company
steven.wanthal@boeing.com