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Your contribution is important!

As a participant in this workshop, you will help inform future technical programs and standards activities in metal-based additive manufacturing.

WHO SHOULD ATTEND:

Additive manufacturing stakeholders, including technology suppliers and users, university researchers, and government agencies

BENEFITS OF ATTENDING:

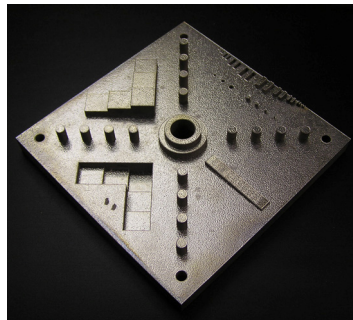
- Influence the national research agenda for metal-based additive manufacturing
- Influence the selection, priorities, and timing of new standards developed with ASTM F42
- Hear perspectives from key companies, researchers, and decision-makers
- Create and improve collaboration opportunities with peers working in the field

For more information:

[Visit the workshop website](#)

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Please join us on December 4-5, 2012!

The National Institute of Standards and Technology (NIST) is hosting a two-day Roadmapping Workshop on Measurement Science for Metal-Based Additive Manufacturing at the NIST Gaithersburg, MD campus on December 4-5, 2012.

Additive manufacturing (AM) is a high-priority technology growth area for U.S. manufacturers. Innovative additive manufacturing processes that fabricate parts layer-by-layer directly from the 3-D digital model have great potential for making high-value, complex, individually customized parts. However, key issues must be addressed to achieve widespread use of additive processes for direct part production and realize the potential economic benefits. Among the issues to be addressed are gaps in measurement methods, performance metrics, and standards needed to evaluate fundamental AM process characteristics, improve the performance of AM equipment, improve the accuracy of AM parts, and increase the confidence in the mechanical properties of parts fabricated using these systems.

This event will bring together experts in AM from diverse stakeholder groups to identify the priority measurement science challenges and associated R&D needs for metal-based AM systems. The results of the workshop will serve as the foundation for development of a measurement science roadmap for AM.

The workshop agenda includes stage-setting speakers, panel discussions, and facilitated break-out sessions. The emphasis will be on defining requirements and priorities in areas such as:

- AM materials
- AM processes and equipment
- Qualification and certification of materials, processes, and products
- Modeling and simulation of AM

You are invited to submit an optional white paper (2-page maximum) prior to the workshop to start discussions on measurement and standards challenges.

[Click here for instructions.](#)

WORKSHOP OBJECTIVES:

The workshop will build on prior AM roadmaps and other efforts that have identified technology challenges and R&D needs, and will focus on high-priority measurement science needs. Workshop objectives are to identify:

- Future measurement and standards related targets/goals for metal-based AM
- Measurement science barriers, challenges, and gaps that prevent the broad use of additive manufacturing
- Priorities and timing for ASTM F42 standards development
- R&D needed to address the priority measurement and standards challenges

<http://events.energetics.com/NIST-AdditiveMfgWorkshop/index.html>