



# ASME

## V&V 50 Advanced Manufacturing

Verification and Validation in Computational Modeling and Simulation

OPPORTUNITY TO CONTRIBUTE THE

### Development of ASME Verification and Validation (V&V) Standards for Advanced Manufacturing

Explore the development of procedures for verification, validation, and uncertainty quantification in modeling and computational simulation for advanced manufacturing.

**T**his effort reflects a growing interest among various stakeholders from industry, government, and academia in V&V and UQ as a vehicle to help advance new manufacturing technologies and methods, and the need for standard procedures in this area. Specific areas of focus are currently being identified and prioritized, such as process characterization and efficiency, materials and material properties, hierarchical processing in manufacturing, and big data analytics for smart manufacturing. The new committee will also foster research collaborations with Manufacturing USA institutes, other scientific societies (e.g., ASTM, IEEE) and industry.

ASME is currently soliciting subject matter experts and affected stakeholders to help support this effort, and influence the prioritization of topics to be addressed.

#### Benefits to Participants of Standards Participation

By participating, you can influence the quality and direction of the standards of your chosen field, and reap personal and professional rewards, such as:

- Networking with the foremost technical experts in your field.
- Awareness of technical issues, and standards and best practices in your industry.
- Broader understanding of other segments of your industry worldwide.
- In some instances, fulfilling the requirements for professional development.

The initial founding members of this new committee include research experts from industry, academia, government, and industry consortia.

#### Benefits to Supporting Organizations and the Public

Organizations realize direct and indirect benefits when they support employees' membership in ASME Standards & Certification activities, such as:

- Organization's perspective considered in standards development and requirements.
- Enhancement of participating employees' understanding of relevant standards.
- Access to opportunities for shared participation in research and development.

#### How to participate

Participation is simple. You need to submit an ASME Codes and Standards Personnel Form and ASME Codes and Standards Participation Acknowledgement Form.

**Please contact Fred Constantino ([Constantinof@asme.org](mailto:Constantinof@asme.org), +1.212.591.8684) for help with the process.**



#### FAQs about Standards and Certification

[www.asme.org/codes-standards/publications-information/faq](http://www.asme.org/codes-standards/publications-information/faq)

#### V&V 50 Committee Page

<https://cstools.asme.org/csconnect/CommitteePages.cfm?Committee=101978604>

#### General information on participation in Standards committee

[www.asme.org/codes-standards/asme-code-committee/get-involved](http://www.asme.org/codes-standards/asme-code-committee/get-involved)



The American Society of Mechanical Engineers (ASME)

Codes & Standards

V&V 50 Subgroups:

V&V Interactions with the Model Life Cycle

VVUQ Applications in Process Technologies

VVUQ Challenges and Methods in Systems of Models

VUQ Methods in Data-driven and Hybrid Models

Terminology, Concepts, Relationships and Taxonomy for VVUQ in Advanced Manufacturing