Companies in highly regulated industries will need to develop material data sets before implementing additive manufacturing technologies in production. These individual data sets can cost upward of $1M each. The ASTM AM CoE U.S. Industry Consortium will co-fund material data-set development and greatly reduce the cost to each member organization.

TO JOIN, PLEASE CONTACT
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The CoE U.S. Industry Consortium works with the standards community to address the critical need for new AM standards.

**Industry Member Value**
- Member exclusive material design allowable data sets with a target of 5:1 ROI
- Targeting two design allowable datasets per year
- Stay on the forefront of advances in material dataset development through interactions with government agencies

**AM Community Value**
- Improve current standards
- Identify sources of variation for future standardization
- Accelerate new standards development
- In each case the data will be used for standards development without the detailed data being shared publicly

**最佳可用标准**

1. **输出**
2. **输入**
3. **研究**
4. **发现**

**数据驱动的标准**

**ASTM CoE** supports F-42 standards development for AM testing, powders, NDT, and qualification

The Consortium identifies, prioritizes, and funds development of specific material databases.
EWI operates two complementary consortia dedicated to advancing AM technology

Additive manufacturing consortium (AMC) conducts early stage research in AM
- Pre-competitive R&D
- Broad member-initiated projects

ASM AM CoE U.S. Industry Consortium addresses technology adoption and implementation
- Material dataset creation
- Standards development within the AM community

Consortium Member Activities
Each year, consortia members select and execute the development of S-basis datasets for two materials (e.g., aluminum, titanium, Inconel, stainless steels, high temperature alloys). While research output will inform the development of new AM standards through the ASTM, members retain exclusive use of the datasets themselves.

Activities
In addition to ongoing projects, the consortium hosts member meetings twice a year. (Meetings may be set in conjunction with AMC and/or ASTM meetings) Members are also encouraged to participate in work groups to provide guidance and direction during the execution of projects.

Five Reasons to Join the AM CoE Industry Consortium

1. Leverage R&D and material data-set creation expertise from EWI, Auburn University, NASA, and NIAR

2. Unique, first of its kind direction relationship between standard development and research organizations

3. The consortium works in conjunction with Battelle Memorial Institute, which provides mechanical characterization test guidance and data reduction services to the consortium to support standard development of materials

4. Output of research will be a documented process on how to certify material and clarify the requirements needed by FAA and MMPDS

5. Ability to positively impact your supply chain through standardization while preserving a unique RoI for your organization

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The ASTM AM CoE U.S. Industry Consortium is an extension of the ASTM Additive Manufacturing Center of Excellence (AM CoE), which brings together industry, government, and academia to coordinate R&D that supports AM standards development, related education training, and more.