U.S. DEPARTMENT OF ENERGY | Office of NUCLEAR ENERGY

Clean. Reliable. Nuclear.

Advanced Methods for Manufacturing

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Office Of Accelerated Innovation in Nuclear Energy

Advanced Methods for Manufacturing (AMM) Vision and Goals

Vision

- To improve the methods by which nuclear equipment, components, and plants are manufactured, fabricated, and assembled by utilizing ‘state of the art’ methods.

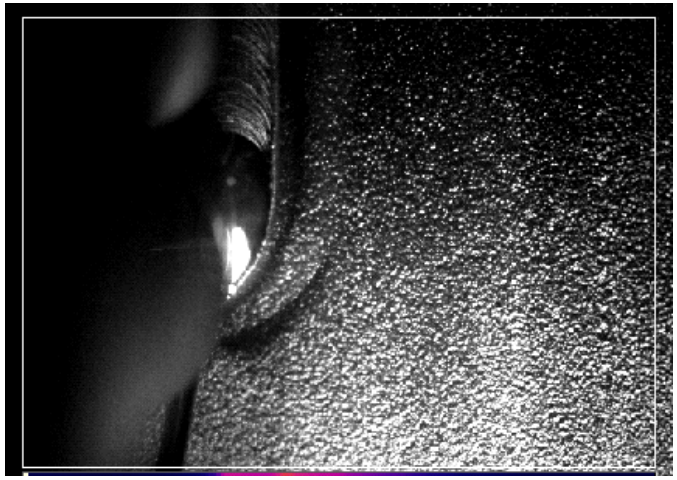
Courtesy of Georgia Institute of Technology

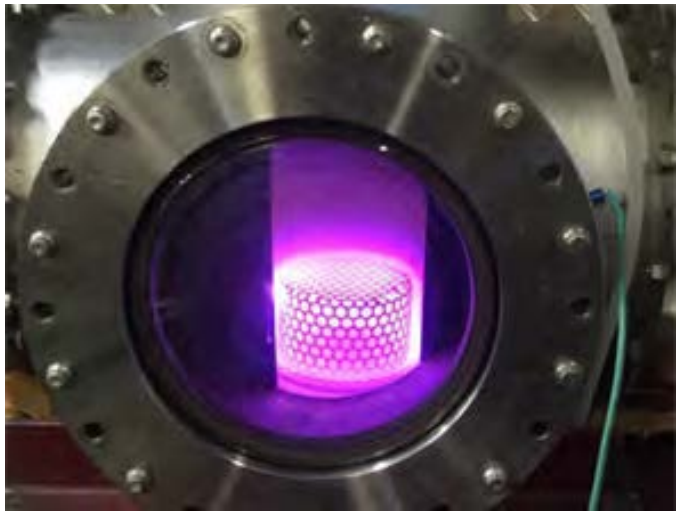
Goal

- To reduce cost and schedule for new nuclear plant construction
- To make fabrication of nuclear power plant (NPP) components faster, less expensive, and more reliable

NEET-1 FOA Technical Focus Areas

1. **Factory and Field Fabrication Techniques, such as:**
   - **Welding and joining technologies**
   - **Modular fabrication and installation**
2. **Quality Control Techniques and Qualification Methodologies**

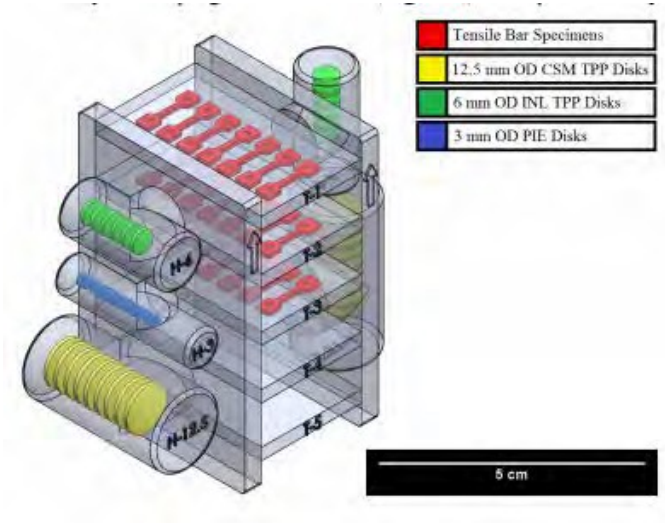




NSUF-1.2 FOA Technical Focus Area

- Irradiation testing of AMM materials to demonstrate performance

- This funding supports the preparation and analysis of the AMM materials and samples, but it does not fund new AMM materials research and development activities



Summary of Expectations

- The technologies developed will decrease the cost of manufacturing and fabrication of components for nuclear power plants, or improve the cost and schedule for construction times.
- The development of products and components will be able to gain acceptance by the appropriate regulatory or standard-setting bodies
- Specific products should be capable of being **deployed** in commercial nuclear power plants

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- **2018 Advanced Methods for Manufacturing (AMM) Award Summaries can be found on the NE's website under NEET documents.**