

HPC4 MANUFACTURING

*Shaping the Future of Manufacturing
Using High Performance Computing
October 18-19, 2023*

U.S. DEPARTMENT OF
ENERGY | Office of ENERGY EFFICIENCY
& RENEWABLE ENERGY
ADVANCED MATERIALS & MANUFACTURING
TECHNOLOGIES OFFICE

HPC4 ENERGY INNOVATION

UNIVERSITY
OF
CALIFORNIA

Livermore
Collaboration
Center

Previous Efforts

“facilitate access to the National Laboratories studied under subsection (a) for small and medium manufacturers so that small and medium manufacturers can fully use the high-performance computing resources of the National Laboratories to enhance the manufacturing competitiveness of the United States.”

~2022 Bipartisan Infrastructure Law (Sec. 40533)



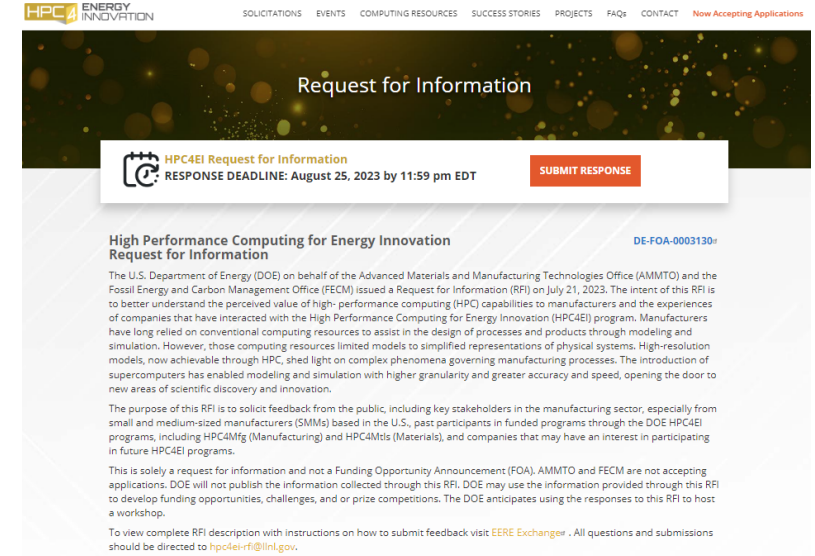
Surveys



Interviews



DOE Report on HPC Usage among SMMs



DOE RFI on HPC4EI program

Agenda - Day 1

9:00 a.m. Welcome, Introduction, and HPC4EI Program overview

9:55 a.m. Government Programs and Perspectives on HPC Research Session

11:50 a.m. Lunch

12:50 p.m. Private Sector HPC Resources and Perspectives Session

3:00 p.m. Break

3:20 p.m. Innovation Highlights Session

4:35 p.m. HPC Resource Providers Discussion Session (By Invitation)

5:30 p.m. Networking Reception

Agenda - Day 2

9:00 a.m. Day 2: Welcome and Overview

9:10 a.m. Manufacturing Modeling and Simulation Challenges

9:40 a.m. Community Solutions

10:10 a.m. Themes and Teams

10:25 a.m. Instructions for Breakout Sessions

10:35 a.m. Facilitated Discussion

11:50 a.m. Report Out Session

12:20 p.m. Closing Remarks

Workshop pointers

- We will be broadcasting/recording the talks.
- Your cell phone will be useful on day 2, please bring it.
- There are hotel offices across the courtyard for side meetings.
- ...