



ndemc.org



NDEMC is comprised of the following partners:

OEMs

- Deere & Company
- General Electric Company
- Lockheed Martin Corporation
- The Procter & Gamble Company

Solution Partners

- Council on Competitiveness
- National Center for Manufacturing Sciences
- National Center for Supercomputing Applications (University of Illinois)
- Ohio Supercomputer Center
- Purdue University
- SCRA

State Governments

- Ohio Board of Regents

Federal Government

- The White House
 - National Economic Council/ Office of Manufacturing Policy
 - Office of Science and Technology Policy
- U.S. Department of Commerce
 - Economic Development Administration
 - National Institute of Standards and Technology
- U.S. Department of Energy
 - Argonne National Laboratory
- National Aeronautics and Space Administration
- National Science Foundation

NDEMC is energizing the growth and development of small- and medium-sized American manufacturing enterprises (SMEs) by promoting public-private partnerships and encouraging skills transfer of advanced manufacturing techniques and processes that leverage computational power, simulation and cutting-edge modeling techniques. With funding through the Economic Development Administration, and as the initial project of President Obama's Advanced Manufacturing Partnership, the White House and the Council on Competitiveness are leading the effort to collaborate with SMEs to use modeling and simulation.

NDEMC brokers and promotes collaborative relationships that will sustain the growth of American manufacturing through jobs creation and enhanced competitiveness. NDEMC provides modeling, simulation and analytics education and training, access to High Performance Computing (HPC) and access to Software as a Service (SaaS). These services will be available through a distributed application to make U.S. SMEs more competitive in the global marketplace.

NDEMC has two major forthcoming deliverables: a web-based portal and up to 40 demonstration projects/case studies. **The portal will be easy to access with features that include:**

- A single point of entry to access MS&A software and HPC
- A searchable database of MS&A software (at present there are 143 types of software in the database)
- A secure business transaction capability (pay-by-use model)
- Access to unbiased advice and direction (university partners)
- A database of MS&A consultants and their areas of expertise

The projects in process now are the following SMEs:

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| • Adams Thermal Systems | • Midwest Precision |
| • AltaSim Technologies | • Modern Tool Inc. |
| • Applied Science Inc. | • Morrison Industries |
| • Boss Industries | • Plastipak Packaging, Inc. |
| • Dekker Vacuum Technologies | • Pratt Industries |
| • Engendren Inc. | • Quality Manufacturing Corp. |
| • Greenlight Optics | • Replex Plastic Inc. |
| • Jeco Plastic Products | • Rosenboom, Inc. |
| • KLW | • Technology Management Inc. |
| • MED Institute Inc. | • TPI Composites |