The Advanced Manufacturing Partnership

The Advanced Manufacturing Partnership was created in 2010 to identify and tackle the most pressing challenges facing the American manufacturing sector. It is a group of university and college presidents, CEO's from the nation's most successful manufacturing firms, labor leaders and policymakers across the federal government.

In the report released in 2011 by the Partnership, recommendations were put forth to bring about a resurgence in U.S. manufacturing by creating a magnet for jobs and investment, and fostering broad, long-term collaboration among industry, academia, and government partners to drive advances in U.S. innovation and workforce capabilities. The 2011 recommendations are divided into three pillars: Enabling Innovation, Securing the Talent Pipeline and Improving the Business Climate.

AMP in 2014

In the fall of 2013, the Partnership was renewed with the goal of building on the 2011 recommendations with action. AMP is focused on furthering priorities of the original partnership in five key areas:

1. ***Transformative Technologies***

Manufacturing leadership requires technology leadership. AMP has developed a prioritization process to select **top tier technology opportunities** from the list of technologies in the AMP report, including: Advanced Materials Design, Synthesis & Processing; Advanced Sensing, Measurement & Process Control; Industrial Robotics; and Visualization, Informatics and Digital Manufacturing. Teams will now build on the U.S. innovation advantage to create manufacturing technology strategies for sustained U.S. technology leadership.

2. ***Demand-Driven Workforce Solutions***

Manufacturing is only as strong as the talent base behind it. AMP will identify the characteristics of successful partnerships and mechanisms to rapidly scale demand-driven workforce solutions in areas of critical skills need, and identify private sector and federal resources to leverage behind these solutions. The team has prioritized **four areas** for further investigation: increasing career pathways across education system, increasing the use of portable and stackable credentialing systems, broader use of internships and apprenticeships, and rationalizing DOD training modules with certifications and accreditations familiar to the private sector.

3. ***Implementation of the National Network for Manufacturing Innovation (NNMI)***

We need test-bed consortia where small and large firms can partner with researchers to create new manufacturing technologies and processes. AMP will provide tactical input on the implementation of the NNMI to ensure that the institutes and the network are appropriately geared towards industry needs and that core implementation issues are addressed. This may include, but is not limited to guidance documents for intellectual property protection, performance metrics, and governance structure.

4. ***Technology Scale-Up Policy***

To compete we need to get better at rapid scale of production. AMP will investigate potential solutions to address connectivity within the supply chains for new technologies, improvements to the technology identification, sourcing and implementation process, and access to capital sources.

5. ***Improving the Image of Manufacturing***

Manufacturing requires new talent. This AMP team will work to remake the image of manufacturing with the public sector. K-12 participants (students, teachers and parents) are the highest priority stakeholder group.

What can you do to get involved?

Your support of American manufacturing is critical. If we or our networks can be of use to you, please do not hesitate to reach out to the staff contacts for the Partnership or contact member organizations in your districts directly.

*Not supported by taxpayer funds

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Members of the Advanced Manufacturing Partnership Steering Committee

- Wes Bush, Chairman, CEO and President, Northrop Grumman Corp.
- Dr. Mary Sue Coleman, President, The University of Michigan
- David Cote, Chairman and CEO, Honeywell
- Nicholas Dirks, Chancellor, University of California, Berkeley
- Kenneth Ender, President, Harper College
- Leo Gerard, International President, United Steelworkers
- Hon. Shirley Ann Jackson, President, Rensselaer Polytechnic Institute
- Eric Kelly, President and CEO, Overland Storage
- Klaus Kleinfeld, Chairman and CEO, Alcoa Inc.
- Andrew Liveris, Chairman and CEO, The Dow Chemical Company
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- Rafael Reif, President, Massachusetts Institute of Technology
- Eric Spiegel, President and CEO, Siemens Corp.
- Mike Splinter, CEO, Applied Materials Inc.
- Christie Wong Barrett, CEO, MacArthur Corp.

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