

IOWA'S MANUFACTURING 4.0 OPPORTUNITY



A TECHNOLOGY REVOLUTION

Manufacturing, a critical industry sector for Iowa, faces a technology revolution that emphasizes automation and smart technology. This fourth Industrial Revolution, known as Industry 4.0, includes the Internet of Things, additive manufacturing, advanced robotics, augmented reality, and cybersecurity.

Digital technologies will transform how work is performed, including how products are designed, fabricated, used and serviced. Iowa's ability to compete globally will hinge on its manufacturers' successful transition to new operating models, especially for small- to medium-sized manufacturers who will face mounting pressure from the larger manufacturers they supply.



\$30.1 BILLION
OR 17% OF IOWA'S GDP
IS GENERATED BY
MANUFACTURING



MANUFACTURING
EMPLOYS **17%**
OF IOWA'S
PRIVATE SECTOR
WORKFORCE

SOURCES: Bureau of Economic Analysis, Brookings Institution

IOWA'S CHALLENGE

Iowa's current incentive structure does not encourage investment in the emerging Manufacturing 4.0 technologies. The state must adapt to support manufacturers through this transformation.

PROPOSED LEGISLATIVE ACTION

1. Adapt Iowa's incentive structure, including matching grants deployed selectively by size of firm, need, technology maturity, and other factors.
2. Allow for accelerated depreciation application process for capital investments in smart manufacturing technologies as part of qualifying, new High Quality Jobs projects.

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IOWA'S MANUFACTURING 4.0 PLAN

Iowa's proposals are in line with its Manufacturing 4.0 plan, a comprehensive strategy to take on the Industry 4.0 challenges of adopting technology, increasing productivity, competing for talent and ongoing globalization.

While the Manufacturing 4.0 plan is primarily focused on advancing technology adoption and utilization among Iowa's manufacturers, it further addresses enhancements in the broader manufacturing ecosystem.

The Advanced Manufacturing Work Group, a subgroup of the Iowa Economic Development Authority's (IEDA) Iowa Innovation Council, led the Manufacturing 4.0 initiative with support from TEconomy Partners, manufacturing leaders and IEDA.

FIVE STRATEGIC PRIORITIES

- *Manufacturing 4.0 Tech Adoption and Utilization*
- *Enabling Infrastructure for Digital Technologies*
- *Improving Supply Chain Linkages*
- *Accelerating Manufacturing Startups and Scale-Ups*
- *Ensuring an Effectively Trained Manufacturing 4.0 Workforce*

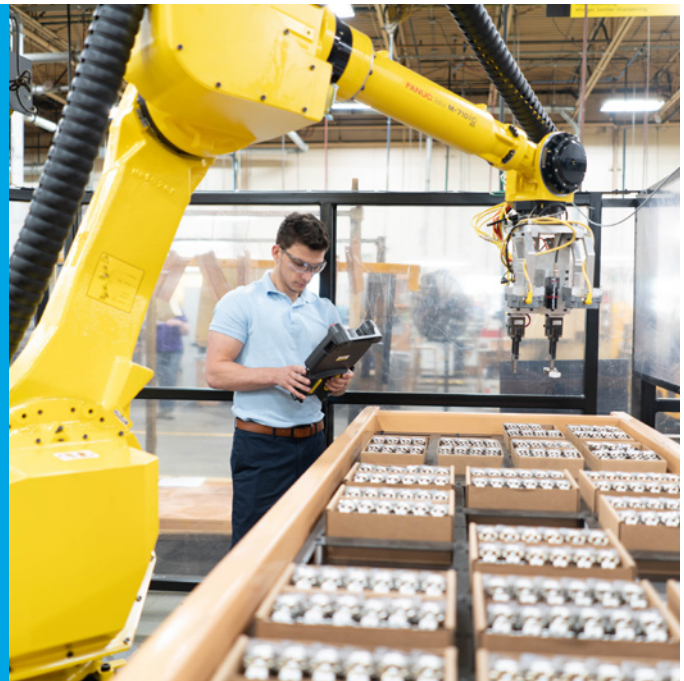


Photo courtesy of Pella Corporation

To read the Manufacturing 4.0 executive summary and full report, visit:
<https://www.iowaeda.com/our-agency/reports/>

For more information, contact the Iowa Economic Development Authority (IEDA)
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