

Driving the Next Era of Aerospace & Defense Manufacturing



The Youngstown Innovation Hub for Aerospace & Defense serves as a national proving ground for advanced and additive manufacturing, accelerating the transformation of ideas from concept to market with speed and scale. The Hub brings together cutting-edge facilities, world-class talent, and strategic partnerships to revolutionize American manufacturing. Its mission is to strengthen U.S. aerospace and defense supply chains, advance next-generation workforce development, and pioneer innovative manufacturing solutions with global impact.

For more than a decade, Youngstown has been home to America Makes—the National Additive Manufacturing Innovation Institute—and has seen over \$400M in federal funding drive innovation in the region. As additive manufacturing expands globally, Youngstown is poised to scale its impact even further.

Managed by the National Center for Defense Manufacturing and Machining (NCDMM), in collaboration with America Makes, the Youngstown Innovation Hub is more than a regional resource — it's a catalyst for national security, global competitiveness, and long-term economic growth.



Objectives & Approach

- Expand facilities
- Create programs
- Develop a talent pipeline
- Leverage the region's assets
- Secure capital investments
- Support large/small businesses
- Increase competitiveness

Advancing Economic Impact in Northeast Ohio & Beyond

\$62M investment | 130,000 sq.ft. of additional space

By 2029, the collaborative effort of the Innovation Hub is expected to yield:



Estimated economic impact of \$161.6M



185 STEM credential certificates opportunities



Estimated 450 jobs in the Mahoning Valley



40 internship opportunities



Our Partners are Committed

The Hub thrives on the dedication of its diverse collaborators and partners — civic and private alike — who are united by a shared vision and a long-term strategy anchored in local needs and aligned with national aerospace and defense priorities.

Deeply invested in the Hub's success, these collaborators bring unique expertise and collective commitment to advancing manufacturing, strengthening our nation's defense capabilities, and driving equitable economic growth in the Mahoning Valley.



Army's Advanced Manufacturing Strategy Takes Shape

The U.S. Army is transforming sustainment and logistics through advanced manufacturing, replacing legacy machinery with the precision of 3D printing and digital production. From metal parts made in motor pools to titanium hulls at Rock Island Arsenal, these capabilities strengthen readiness across the force, enabling the warfighter to produce mission-critical components in days and reduce supply chain risks. Guided by a new Army-wide strategy, advanced manufacturing is creating a connected, agile ecosystem that keeps America's forces equipped and mission-ready.

Source: "Transforming Army Sustainment Through Advanced Manufacturing," April, 18, 2025 (Army.mil)

"The new Youngstown Innovation Hub will bolster economic development locally and statewide, capitalizing on the region's long-standing additive manufacturing technology and research. With support from the Ohio Innovation Hubs Program, partners will now have added capacity to drive critical advancements in the defense and aerospace industries by transforming the way military equipment is made and strengthening our country's defense supply chains."

– Ohio Governor Mike DeWine