



North Central Pennsylvania
Pressed Materials Consortium

Start Something New: Entrepreneurship in the Pressed Materials Industry

Whether you're building software, prototyping new materials, or rethinking the factory floor—there's room to grow in the Pressed Materials industry.

The future of smart manufacturing is already taking shape here—and it needs your ideas. The following are just a few of the many areas that are ready for startups and innovators.



Smart Manufacturing Tools

- Process optimization software
- AI-enabled quality control
- Sensors and robotics for press operations and process monitoring



Sustainable Innovation

- Recyclable materials
- Low-energy sintering processes
- Waste-to-input circular systems



Supply Chain & Logistics

- Powder traceability tools
- Just-in-time delivery optimization
- Marketplace platforms for secondary machining, tooling, or heat treating



New Product Development

- Lightweight, high-strength parts
- Customized micro-component production
- Biocompatible materials for implants and tools

Why Now, and Why North Central PA?

North Central Pennsylvania is building the infrastructure and growing the innovation ecosystem to support entrepreneurship:



University
research support
and expertise in
materials science



Industry partners
eager for new
solutions



A growing regional
innovation hub with
proximity to major
R&D Centers



Access to
manufacturing
testbeds, funding,
and mentors

Future Ready

As the demand for advanced materials accelerates, the pressed materials industry is shaping the future of high-performance manufacturing—and NCPA is at the center of it.

From pioneering sustainable production methods to integrating automation, data-driven processes, and next-generation alloys, this sector is redefining what's possible. With deep expertise, a skilled workforce, and unmatched industry concentration, North Central Pennsylvania is driving innovation that strengthens supply chains and positions the U.S. for global leadership.

NCPA is sparking the ideas and companies that will fuel America's next industrial revolution. North Central Pennsylvania is the launchpad for innovation, where startups and visionaries are driving smarter, faster, and more sustainable solutions for global markets.

Want to know more? Visit pressedmaterials.org or contact our Regional Innovation Officer, John Williams at jcw5919@psu.edu