

Manufacturing Innovation Program	Allocation Amount	Project	Manufacturing Company	Location
Carnegie Mellon University	\$50,597.00	Second Skin: Additive Manufacturing of Hybrid Self-Healing Sensors and Actuators	AM21 Technologies	Imperial, PA
Carnegie Mellon University	\$70,000.00	Profile-3D-Printing Thermally Tuned Concrete Panels to Offset Mechanical loads in Buildings	TAKTL	Turtle Creek, PA
Carnegie Mellon University	\$69,956.00	Advanced Manufacturing of Ceramics with Micro-Scale Features using Green Micromachining	Kennametal, Inc.	Latrobe, PA
Drexel University	\$70,000.00	Enhancing surface area and sensor sensitivity through electrospinning	LIA Diagnostics	Philadelphia, PA
Drexel University	\$70,000.00	Advanced Laboratory Cryogen Delivery and Management System	Advanced Research Systems, Inc.	Macungie, PA
Drexel University	\$50,890.00	AEROSPACE PARTS ADVANCED MANUFACTURING	Boeing Philadelphia	Morrisdale, PA
Lehigh University	\$50,050.00	PA Based Smart Extrusion Device Development at Noortek LLC	Noortek LLC	Emmaus, PA
Lehigh University	\$66,176.00	Design of macro, micro and nano-scale implant surface features to optimize bone growth	Aesculap Implant Systems, LLC	Breinigsville, PA
Lehigh University	\$40,953.00	Bone marrow aspirate concentrate procedures in the clinic: Cell population profile correlation to patient outcomes	DSM Biomedical (1) Sachdev Orthopedics (2)	Exton, PA (1) Easton, PA (2)
Robert Morris University	\$37,810.00	Adopting Additive Manufacturing Technologies for Orthotics and Prosthetics	Union Orthotics & Prosthetics Co.	Pittsburgh, PA
Temple University	\$69,958.00	Additive Manufacturing Method for Smart Surgical Needles	Inteprod LLC	Eagleville, PA
The Pennsylvania State University	\$70,000.00	Applying Machine Learning to Improve Build Quality of Laser-based Additive Manufacturing	Autodesk	State College, PA
Behrends College - PSU	\$70,000.00	Next Generation Castings – Integrating 3D Sand-Printing for Revamping Pennsylvania Foundries	Hazleton Casting Company	Hazleton, PA
The Pennsylvania State University	\$70,000.00	Additive manufacturing of functionally graded medical devices	Actuated Medical	Bellefonte, PA
University of Pittsburgh	\$64,858.00	Enabling Highly Complex Tungsten Carbide Parts via Binder Jet 3D Printing	General Carbide	Greensburg, PA
University of Pittsburgh	\$56,543.00	Hydride-Dehydride Powder Manufacturing Intensification by Up-cycling of Machining Chips	Ametek Reading Alloys	Robesonia, PA
University of Pittsburgh	\$28,812.00	A new approach to optimize the performance of linepipe steels using novel high temperature processing	United States Steel Corporation	Munhall, PA
Total	\$1,006,603.00			