

Applicant	Allocation Amount	Project	College/University	Manufacturer	Location
Kofi Adu	\$ 69,994.00	Manufacturing Ultra-conductors for the Next Generation Efficient Electric Machines	The Pennsylvania State University, Altoona	Electric Motor & Supply, Inc.	Altoona, PA
Ganesh Balasubramanian	\$ 68,191.00	Data-enabled manufacturing of high-entropy alloys for cryocoolers	Lehigh University	Advanced Research Systems Inc.	Macungie, PA
Joshua Bard	\$ 70,000.00	From Construction Waste To Ecological Architecture: CRuMBLE [Concrete Rubble Manufacturing for Building Lifecycle and Environment]	Carnegie Mellon University	ExOne (Irwin, PA) and Michael Brothers Hauling & Recycling (Pittsburgh, PA)	Irwin, PA and Pittsburgh, PA
Ben Campbell	\$ 31,317.00	Exploration of Laser Degating and Welding of Plastics for Commercial Opportunities	Robert Morris University	MECCO	Cranberry Twp, PA
Daniel Cardoso Llach	\$ 68,632.00	Innovating Construction Through Manufacturing: A Reinforcement Learning Framework for Robotically-Supported Modular Factories	Carnegie Mellon University	iBUILT Group	Berwick, PA
Markus Chmielus	\$ 68,075.00	Reusable N95 cartridge and building filters via binder jet 3D printing informed by 3D characterization, modelling and simulation	University of Pittsburgh	ExOne (North Huntingdon, PA) and ANSYS Inc. (Canonsburg, PA)	North Huntingdon, PA and Canonsburg, PA
Edward De Meter	\$ 70,000.00	Enabling PECM Process Analysis for Advanced Cathode System Design	The Pennsylvania State University	Extrude Hone LLC	Irwin, PA
Liang Du	\$ 69,633.00	Integrated Controller for Transactive Electric Vehicles Charging	Temple University	Bender Inc.	Exton, PA
Babak Eslami	\$ 61,347.00	Design and Development of Environmentally Controlled Enclosure for 3D Printers	Widener University	Verde Mantis, LP	Reading, PA
Yaghoob Farnam	\$ 70,000.00	Developing a thermodynamic-guided manufacturing process to produce sustainable lightweight aggregate from waste coal combustion ash and waste glass	Drexel University	SusMaX LLC	Philadelphia, PA
Gregory Foy	\$ 60,819.00	Developing Modular Cobot Automation Solutions for the Testing Environment	York College of Pennsylvania	MRG Laboratories	York, PA
Matthew Gacura	\$ 70,000.00	Erie-Descent: A Cost-effective multi-method UVC sterilizer	Gannon University	MP-Erie CO.	Erie, PA
Calixto Isaac Garcia	\$ 68,680.00	Influence of casting and rolling processes on precipitation reactions in Ti/Nb steels.	University of Pittsburgh	United States Steel Corporation Research and Technology Center	Munhall, PA
Himanshu Jain	\$ 70,000.00	Development of a Manufacturing Method for Strengthening Flat Glass Products	Lehigh University	MCS Industries Inc.	Easton, PA
Ronald Kander	\$ 69,212.00	Mechanical & Physical Properties of Hemp Reinforced Composite Parts: Injection Molding vs. 3-D Printing	Thomas Jefferson University	Coexist, LLC	Blanton, PA
Calvin Li	\$ 70,000.00	Amphenol-Villanova Partnership for Innovation in the Calibration of CO2 Sensors to Increase Throughput: A Computational and Experimental Approach	Villanova University	Amphenol Advanced Sensors	St. Marys, PA
Carmel Majidi	\$ 65,377.00	Mass Manufacturing of Liquid Metal Fluoropolymer Elastomer Composites	Carnegie Mellon University	Arieca Inc.	Pittsburgh, PA
Guha Manogharan	\$ 70,000.00	I-AIM4PA: Innovation in AI in advanced Manufacturing for Pennsylvania	The Pennsylvania State University	Verder Scientific, Inc.	Newtown, PA
Robert Michael	\$ 58,025.00	Next Generation TPU Column Guard for Storage Rack Protection	Gannon University	Corry Rubber Corporation (Corry, PA) and GeorgeKo Industries, Inc. (Erie, PA)	Corry, PA and Erie, PA
Ahmad Najafi	\$ 67,751.00	Design and Manufacturing Optimization of a Personalized Total Ankle Replacement	Drexel University	Kinos Medical Inc.	Wayne, PA

Chandrasekhar Nataraj	\$ 69,977.00	Development of a Low-Cost Field Ventilator	Villanova University	EFE Labs	Perkasie, PA
Paul Ohodnicki	\$ 64,433.00	Spatially Tuned Hiperco Alloy Based Motors for Electric Vehicle and Hybrid-Electric Aircraft Applications	University of Pittsburgh & Carnegie Mellon University	Carpenter Technology Corporation	Philadelphia, PA
Elham Sahraei	\$ 68,497.00	Design and Prototype Development of an Impact Resistant Lithium-ion Battery Cell	Temple University	ROEL POWER LLC	Spring House, PA
Caroline Schauer	\$ 65,778.00	Modification of the touchspinner for deposition of antibacterial coatings on various surfaces	Drexel University	Whiff, LLC	Chester, PA
Albert To	\$ 68,900.00	A Gradient-Based Deformation Compensation Method for Minimizing Warpage in Sintered Binder Jetted Parts	University of Pittsburgh	Wabtec (Grove City, PA), ExOne (Irwin, PA) and Ansys (Canonsburg, PA)	Grove City, PA, Irwin, PA and Canonsburg, PA
Kevin Turner	\$ 70,000.00	Data-Driven Physics-Informed Models to Predict Shrinkage and Distortion of Additively Manufactured Metals During the Sinter Densification Process	University of Pennsylvania	TE Connectivity Corp.	Middletown, PA
Daudi Waryoba	\$ 62,004.00	Fabrication of Cu-Ni-Si Parts by Powder Metallurgy	The Pennsylvania State University, DuBois	Symmco, Inc.	Sykesville, PA
Jason Williams	\$ 44,277.00	Smart manufacturing and operator intervention systems for injection molding processes	The Pennsylvania State University, Behrend	The Plastek Group	Erie, PA
Emory Zimmers	\$ 68,955.00	Freshpet Predictive Analytics and Artificial Intelligence	Lehigh University	Freshpet	Bethlehem, PA
TOTAL \$ 1,899,874					