

Institution	Industry	Niche Opportunity
Virginia Tech	Advanced Manufacturing	Semiconductor Technologies
	Advanced Manufacturing	RF/VLSI Circuit Design
	Advanced Manufacturing	Robotics
	Advanced Manufacturing	Electronic Components
	Aerospace	Aerospace Technologies
	Communications	Cognitive Radio
	Communications	Secure Communications/Cyber Security
	Communications	Wireless Networks
	Communications	Mobile Communications
	Communications	Antenna Design
	Communications	Mobile Communications Equipment
	Energy	Biofuels
	Energy	Energy Systems Engineering
	Energy	Natural Gas Distribution
	Energy	Coal Research
	Energy	Mining Engineering
	Energy	Plug-in Hybrid System
	Energy	Energy Metering Equipment
	Energy	Photovoltaic Technologies
	Energy	Wind Energy
	Energy	Geothermal Energy
	Energy	Ocean Wave Engineering
	Energy	Smart Grid Technologies
	Energy	Grid Security
	Energy	Power Electronics/Power Conversion
	Energy	Energy Storage Platforms
	Energy	Sunlight-to-Hydrogen Generation
	Energy	Energy Harvesting
	Energy	Smart Lighting
	Energy	Fuel additives
	Energy	Environmental/Climate Change Research
	Energy, Environment	Carbon Sequestration Technologies
	Energy, Transportation	Plug-in Electric Vehicles
Environment	Green/Sustainable Building Design (Residential and Commercial)	
Environment	Sustainable Landscape Design	
Environment	Water Quality	
Environment	Environmental Policy	

	Environment	Waste Recovery
	Environment	Environmental Impacts of Nanotechnologies
	Information Technology	Computer Software
	Information Technology	Cloud Computing
	Information Technology	Data Analytics
	Information Technology	Network Security/Cyber Security
	Information Technology	High Performance Computing
	Information Technology	Modeling and Simulation
	Information Technology	Visualization
	Information Technology	Education Technologies
	Information Technology	National Security Technologies
	Information Technology/Life Sciences	Bioinformatics
	Life Sciences	Personalized Medicine
	Life Sciences	Remote Patient Monitoring and Care Delivery
	Life Sciences	Integration of Social Media and Patient Care
	Life Sciences	Medical Device Development
	Life Sciences	Diagnostics and Assays
	Life Sciences	Imaging and Radiology
	Life Sciences	Research Reagents
	Life Sciences	Inflammation Research
	Life Sciences	Neuroscience
	Life Sciences	Public Health and Aging
	Life Sciences	Pharmaceuticals
	Life Sciences	Therapeutics
	Life Sciences	Biomarkers
	Life Sciences	Drug Delivery
	Life Sciences	Immunology/Infectious Diseases
	Life Sciences	Regenerative Medicine/Oncology
	Life Sciences	Nutrition and Obesity
	Life Sciences	Aquaculture
	Life Sciences	Veterinary Vaccines
	Life Sciences	Plant Germplasm
	Life Sciences, Nanotechnology	Targeted Delivery of Nanomedicine
	Materials	Materials/Pavement Research
	Materials	Construction Materials
	Materials	Polymers
	Materials, Transportation	Road Construction and Materials
	Materials, Transportation	Bridge Construction and Materials
	Nanotechnology	Nanomaterials

	Nanotechnology	Nanoscale Devices
	Nanotechnology	Nanoscale Electronics
	Nanotechnology	Nanomanufacturing/Nanotube Applications
	Sensors	Environmental Sensing
	Sensors	Remote Sensing
	Sensors	Sensor Networks
	Transportation	Autonomous Vehicle Technology
	Transportation	Vehicle Safety Technologies/Research
	Transportation	Traffic Advisory and Signaling Systems
	Transportation	Driver Monitoring
	Transportation	Shipbuilding Technologies
	Transportation	Transport Network Simulations
	Transportation	Vehicle Performance
	Transportation	Crash Biomechanics
		Optics and Lasers