

Institution	Industry	Niche Opportunity
Virginia Commonwealth University (VCU)	Advanced Manufacturing	Semiconductor Technologies
	Advanced Manufacturing	RF/VLSI Circuit Design
	Advanced Manufacturing	Robotics
	Aerospace	Aerospace Technologies
	Communications	Cognitive Radio
	Communications	Wireless Networks
	Communications	Mobile Communications
	Communications	SVMs in Coder and Encoder Design
	Communications, National Security	Secure Communications/Cyber Security
	Energy	Biofuels
	Energy	Photovoltaic Technologies
	Energy	Smart Grid Technologies
	Energy	Nuclear Engineering
	Energy	Mining in Power Engineering Data
	Energy	Nuclear Fuel Processing
	Energy, Materials	Nuclear Materials
	Energy, Sensors	Radiation Detection
	Environment	Water Quality
	Environment	Environmental Policy
	Environment	Environmental/Climate Change Research
	Environment	Green/Sustainable Building Design (Residential and Commercial)
	Information Technology	Computer Software
	Information Technology	Cloud Computing
	Information Technology	Data Analytics
	Information Technology	High-Performance Computing
	Information Technology	Time-Predictable Computing for Safety-Critical Systems
	Information Technology	Low-Power Computing in Handheld Devices
	Information Technology	Mining in Chemical Engineering Data
	Information Technology	Education Technologies
	Information Technology	Interactive and Mobile Education Systems
Information Technology, Life Sciences	Imaging and Radiology	
Information Technology, Life Sciences	Remote Patient Monitoring and Care Delivery	
Information Technology,	Network Security/Cyber Security	

	National Security	
	Information Technology, National Security	Machine Learning and Data Mining (Face Recognition) in Security Databases
	Life Sciences	Bioinformatics
	Life Sciences	Personalized Medicine
	Life Sciences	Medical Device Development
	Life Sciences	Diagnostics and Assays
	Life Sciences	Inflammation Research
	Life Sciences	Neuroscience
	Life Sciences	Pharmaceuticals
	Life Sciences	Therapeutics
	Life Sciences	Biomarkers
	Life Sciences	Drug Delivery
	Life Sciences	Oyster Aquaculture
	Life Sciences, Nanotechnology	Targeted Delivery of Nanomedicine
	Life Sciences, Sensors	Physiological Sensors
	Materials	Polymers
	Materials	Smart Materials
	Modeling and Simulation	Modeling and Simulation
	Nanotechnology	Nanomaterials
	Nanotechnology	Nanoscale Devices
	Nanotechnology	Nanoscale Electronics
	Sensors	Environmental Sensing
	Sensors	Remote Sensing
	Sensors	Sensor Networks
	Sensors	Abnormal Detection
	Sensors	Strain Sensing
	Sensors	Chemical Sensing
	Transportation	Machine Learning Approaches to Traffic Prediction
	Transportation	Autonomous Vehicle Technology
		Optics and Lasers