

Research Opportunities Initiatives Awardees

Lead PI Name	Lead PI Institution	Project Title	Co-PI Name	Co-PI Institution	Other Collaborating Institutions	First year of ROI Funding	Total Award Amount	Primary Priority Area	Secondary Priority Area
<b>FY14-15</b>									
Dr. Mirsad Hadzikadic	UNC Charlotte	NC Data Science and Analytics Initiative – Data-Driven Risk Mitigation			North Carolina State University, RENCI	FY14-15	\$2,168,378.00	Data Science	
Harald Ade	North Carolina State University	NC Carbon Materials Initiative: Materials Design, Processing, and Manufacturing for Defense and Energy Needs	Wei You	UNC-Chapel Hill	NCCU	FY14-15	\$2,829,995.00	Energy	Advanced Manufacturing
Rachel Noble	UNC-Chapel Hill	Revolutionizing and commercializing rapid molecular diagnostics for viral and bacterial pathogen quantification in marine waters and seafood	Dr. Jim Oliver	UNC Charlotte	Marine Biotechnologies Center of Innovation Orion Integrated Biosciences	FY14-15	\$684,805.00	Coastal and Marine Science	Data Science
<b>FY15-FY16</b>									
Dr. Mirsad Hadzikadic	UNC Charlotte	NC Data Science and Analytics Initiative – Data-Driven Risk Mitigation			North Carolina State University, RENCI	FY14-15	\$2,168,378.00	Data Science	
Michael Jay	UNC-Chapel Hill	Pharmacoengineering: Integrating Engineering with Pharmaceutical Sciences to Improve the Delivery of Therapeutic and Diagnostic Agents	Frances Ligler, Ph.D.	North Carolina State University		FY15-16	\$725,000.00	Pharmacoengineering	
TinChung Leung	North Carolina Central University	Bioengineering microalgae for large-scale production of therapeutic antibodies against Ebola, West Nile virus and rabies			UNC Chapel Hill and North Carolina State University	FY15-16	\$240,450.00	Pharmacoengineering	Defense, Military, and Security
Orlando Coronell	UNC-Chapel Hill	Salinity Gradient Energy – An Inexhaustible Clean Energy Resource for North Carolina	Douglas Call	North Carolina State University	East Carolina University UNC Coastal Studies Institute Agile Sciences, Inc. Hazen and Sawyer (contribution to occur in upcoming FY)	FY15-16	\$997,965.00	Energy	Coastal and Marine Science
Rachel Noble	UNC-Chapel Hill	Revolutionizing and commercializing rapid molecular diagnostics for viral and bacterial pathogen quantification in marine waters and seafood	Dr. Jim Oliver	UNC Charlotte	Marine Biotechnologies Center of Innovation Orion Integrated Biosciences	FY14-15	\$684,805.00	Coastal and Marine Science	Data Science
Harald Ade	North Carolina State University	NC Carbon Materials Initiative: Materials Design, Processing, and Manufacturing for Defense and Energy Needs	Wei You	UNC-Chapel Hill	NCCU	FY14-15	\$2,829,995.00	Energy	Advanced Manufacturing

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FY17									
Tony Schmitz	UNC Charlotte	North Carolina Consortium for Manufacturing Data Science (NC-CMDS)			UNC Chapel Hill, NC State, General Electric	FY16-17	\$50,000.00	Advanced Manufacturing	Data Science
Rachel T. Noble	UNC-Chapel Hill	Revolutionizing and commercializing rapid molecular diagnostics for viral and bacterial pathogen quantification in marine waters and seafood	Brett Froelich	UNC-Chapel Hill	UNC Charlotte: Dr. Jim Oliver Marine Biotechnologies Center of Innovation Orion Integrated Biosciences	FY15-16	\$760,000.00	Coastal and Marine Science	Data Science
Arcot Rajasekar	UNC-Chapel Hill	Towards a North Carolina Smart and Connected Communities Initiative			UNC Charlotte NCSU TetraTech	FY16-17	\$50,000.00	Data Science	
Frances Ligler	North Carolina State University	Pharmacoengineering: Integrating Engineering and Pharmaceutical Sciences to Improve the Delivery of Therapeutic and Diagnostic Agents	Michael Jay	UNC-Chapel Hill	Strateq Future Systems not applicable	FY15-16	\$1,971,663.00	Pharmacoengineering	
Douglas Call	North Carolina State University	Salinity Gradient Energy – An Inexhaustible Clean Energy Resource for North Carolina	Orlando Coronell	UNC-Chapel Hill	North Carolina State University, University of North Carolina Chapel Hill, East Carolina University, Coastal Studies Institute	FY15-16	\$997,965.00	Energy	Coastal and Marine Science
Dr Chris Evans	UNC Charlotte	Advancing the Science and Practice of Metal-based Additive Manufacturing	Dr Angela Davies, Dr Ola Harryson, Dr Russell King, Dr Cynthia Waters, Dr Richard Wusk, Dr		Siemens Energy, National Institute of Standards and Technology, Oak Ridge National Laboratory	FY16-17	\$1,676,202.00	Advanced Manufacturing	
TinChung Leung	North Carolina Central University	Bioengineering microalgae for large-scale production of therapeutic antibodies against Ebola, West Nile virus and rabies			UNC Chapel Hill, NC State University	FY15-16	\$632,530.00	Pharmacoengineering	Defense, Military, and Security
Dr. Mirsad Hadzikadic	UNC Charlotte	NC Data Science and Analytics Initiative – Data-Driven Risk Mitigation	Dr. Mladen Vouk, Dr. Ashok Krishnamurthy	North Carolina State University	RENCI	FY14-15	\$2,168,378.00	Data Science	

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FY18									
Douglas Call	North Carolina State University	Salinity Gradient Energy – An Inexhaustible Clean Energy Resource for North Carolina	Orlando Coronell	UNC-Chapel Hill	North Carolina State University, University of North Carolina Chapel Hill, East Carolina University, Coastal Studies Institute	FY15-16	\$217,632.00	Energy	Coastal and Marine Science
Jay-Ligler	UNC-Chapel Hill	Pharmacoengineering: Integrating Engineering with Pharmaceutical Sciences to Improve the Delivery of Therapeutic and Diagnostic Agents	Frances Ligler, Ph.D.	North Carolina State University		FY15-16	\$610,000.00	Pharmacoengineering	Defense, Military, and Security
TinChung Leung	North Carolina Central University	Bioengineering microalgae for large-scale production of therapeutic antibodies against Ebola, West Nile virus and rabies			UNC Chapel Hill, NC State University	FY15-16	\$200,000.00	Pharmacoengineering	Defense, Military, and Security
Rachel T. Noble	UNC-Chapel Hill	Revolutionizing and commercializing rapid molecular diagnostics for viral and bacterial pathogen quantification in marine waters and seafood	Brett Froelich	UNC-Chapel Hill	UNC Charlotte: Dr. Jim Oliver Marine Biotechnologies Center of Innovation Orion Integrated Biosciences	FY14-15	\$96,726.00	Coastal and Marine Science	Data Science
Dr Chris Evans	UNC Charlotte	Advancing the Science and Practice of Metal-based Additive Manufacturing	Dr Angela Davies, Dr Ola Harryson, Dr Russell King, Dr Cynthia Waters, Dr Richard Wysk, Dr Michael Kowolenko		Siemens Energy, National Institute of Standards and Technology, Oak Ridge National Laboratory	FY16-17	\$600,000.00	Advanced Manufacturing	
Alex Tropsha	UNC-Chapel Hill	Data Science: Infohub for Rare Diseases		North Carolina State University	NCCU, UNCP	FY17-18	\$700,000.00	Data Science	
Debasish Kuila	North Carolina A&T State University	Solar-Enabled Green Liquid Fuels	Famxing Li, Michel Gagne	North Carolina State University	UNCCH	FY17-18	\$670,792.00	Energy	
Jinsong Huang	UNC-Chapel Hill	Center for Hybrid Materials Enabled Electronic Technologies	Franky So, Marvin Wu, Yong Zhang	North Carolina State University	NCCU, UNCC	FY17-18	\$910,000.00	Energy	