

Faculty Name	Research Area(s)	Research Labs*								
		AAPL	AME	ASC	CAPS	CISCOR	ESC	FCAAP	HPMI	NHMFL
Dynamic Systems										
Clark, Jonathan	Robotics - Legged Locomotion Dynamic System Analysis Mechanical Design and Fabrication					X				
Hubicki, Christian	Robotic Bipedal Locomotions Optimal Control Biomechanical Modeling					X				
Moore, Carl	Human/Robot Interaction Robotic Manufacturing and Design Intelligent Machine Design					X				
Mechanics & Materials										
Cooley, Lance	Superconductor Materials Science Superconducting Radio Frequency Partical Acceleration and Physics			X						
Hellstrom, Eric (Chair)	Superconducting Materials Materials Processing Electronic Materials			X						
Kalu, Peter	Microstructural Analysis Microstructural Characterization Magnetic Materials Processing							X	X	
Kametani, Fumitake	Nanostructure Novel Synthesis Electron Micorscopy			X						X
Larbalestier, David	Superconducting Materials Superconducting Magnets Materials/Magnet Applications			X						
Oates, William	Multifunctional Materials Solid Mechanics Uncertainty, Estimation and Control		X					X		
Thermal & Fluid Systems										
Alvi, Farrukh	Experimental Fluid Dynamics Flow Control High Speed Flows	X						X		
Cattafesta, Louis	Flow Visualization Magnetics (Biology, Micro and Nano) Biomedical Engineering	X								
Guo, Wei	Quantum Fuid Dynamics Cryogenics and Helium-based Research Cavitation and Bubble Dynamics									X
Kumar, Rajan	Experimental Aerodynamics Fluid Dynamics and Flow Control Hypersonics and High-Speed Flows		X					X		

Ordonez, Juan	Renewable Energy Heat Transfer Thermal Systems (Power Generation)		X		X
Shih, Chiang	Aerodynamics Flow Diagnostics BSMS (4+1) Program	X			X
Shoele, Kourosh	Computational Mechanics Biological Flows and Biomechanics Soft Robotics	X		X	X
Yaghoobian, Neda	Heat Transfer Model Development Land-Atmosphere Interaction Computational Fluid Dynamics	X			

Research Labs*

[AAPL - Advanced Aero-Propulsion Laboratory](#)

[AME - Aero-Propulsion, Mechatronics and Energy Center](#)

[ASC - Applied Superconductivity Center](#)

[CAPS - Center for Advanced Power Systems](#)

[CISCOR - Center for Intelligent Systems, Controls and Robotics](#)

[ESC - Energy Sustainability Center](#)

[FCAAP - Florida Center for Advanced Aero-Propulsion](#)

[HPMI - High-Performance Materials Institute](#)

[NHMFL - National High Magnetic Field Laboratory \(MagLab\)](#)