Rational Design of Materials for Energy Conversion and Propulsion – dedicated to developing stronger ties among Mechanical Engineering, Computer Science, Chemistry, Physics, and the Florida Solar Energy Center at UCF, as well as local and regional partnerships, while achieving international prominence in energy and propulsion research;

Cluster Leads: Dr. Patrick Schelling, Dr. Nina Orlovskaya

UCF – A Prominent World Leader in Prosthetic Interfaces – to establish a critical mass of dedicated faculty to enable a viable interdisciplinary bio-medical engineering program at UCF with core competency in prosthetic interfaces for implantable devices and systems;

Cluster Leads: Dr. Yoav Peles, Dr. Sudipta Seal, Dr. Stephen Lambert

Resilient, Intelligent and Sustainable Energy Systems – to advance UCF’s work in smart energy systems and sustainable energy storage, while developing and deploying distributed renewable energy resources and resilient communication networks;

Cluster Lead: Dr. Zhihua Qu

Sustainable Coastal Systems – to lead a world-class effort to understand ecosystem health and function and assess natural and human-related impacts to coastal ecosystems, with the goal of creating decision-support models for planners, policymakers, and stakeholders;

Cluster Lead: Dr. Graham Worthy

Cyber Security and Privacy – to develop world-class scholarship on the security and privacy for the Internet of Things and create tools and methods for preventing, discovering, and mitigating security and privacy breaches, while cultivating highly skilled graduates for this growing field; and

Cluster Lead: Dr. Gary T. Leavens

Genomics and Bioinformatics from Biomedicine to Biodiversity – to create a genomics and bioinformatics cluster that will advance UCF’s life sciences infrastructure, focusing on biodiversity, including in health-related research, and integrating genomics and bioinformatics into curricula at all levels.

Cluster Lead: Dr. Sean Moore

For questions about the Faculty Cluster Initiative, contact Dr. Christopher L. Parkinson at Parkinson@ucf.edu or facultycluster@ucf.edu.