

## University of Florida

### RESEARCH SERVICE CENTERS (RSC)

The Herbert Wertheim College of Engineering's Research Service Centers (RSC) support and enhance the research, education, and public service missions of the University of Florida by providing access to characterization and process instrumentation. Expert staff provides the assistance and guidance necessary so that students, faculty, and industry get the most effective and appropriate use of the center's facilities.

Link: <https://rsc.aux.eng.ufl.edu/resources/default.asp>

#### NANOSCALE RESEARCH FACILITY (NRF)

The Nanoscale Research Facility service center was created to provide a state-of-the-art facility for: university research in micro/nano device fabrication, teaching laboratories associated with micro/nano fabrication, and a collaborative, open environment. The NRF currently houses a 7,000+ sq. ft. clean room class 100-1000 with over 60 fabrication and inspection related tools with a purchase cost of over \$8M. The facility and its resources are available to the entire university community and provide an excellent foundation for current research and grant proposals.

NRF - List of Equipment: <https://rsc.aux.eng.ufl.edu/resources/default.asp?s=NRF>

#### MAJOR ANALYTICAL INSTRUMENTATION CENTER (MAIC)

The Major Analytical Instrumentation Center is a materials characterization and analysis facility established to provide analytical support for Florida's scientific and engineering community in meeting the challenge of technology department. MAIC is a use oriented facility that provides service to the University of Florida, the state university system (SUS), and the industrial and commercial community. MAIC

MAIC - List of Equipment: <https://rsc.aux.eng.ufl.edu/resources/default.asp?s=MAIC>

#### PARTICLE ANALYSIS INSTRUMENTATION CENTER (PAIC)

The Particle Analysis Instrumentation Center grew out of a National Science Foundation ERC into one of the premier particle characterization facilities in the U.S. The PAIC provides the instrumentation and expertise to synthesize and characterize particulate systems for a wide variety of applications across a broad range of industries. There are over 30 instruments available for analyzing particle size, shape, surface and bulk powder properties along with spectroscopic, imaging and analytical instrumentation for chemical analysis and systems characterization.

PAIC - List of Equipment: <https://rsc.aux.eng.ufl.edu/resources/default.asp?s=PAIC>

#### NUCLEAR FUELS & MATERIALS CHARACTERIZATION FACILITY (NFMCF)

The Nuclear Fuels and Materials Characterization Facility (NFMCF) is a facility dedicated to radiological work that offers access to anyone interested in conducting microstructural characterization of irradiated materials and fuels. NFMCF is part of the Herbert Wertheim College of Engineering's Research Service Centers (RSC) and is committed to enhancing research, education, and public service missions of the University of Florida (UF).

Users have the option of either performing the sample preparation and analysis themselves (upon instruction from UF staff and demonstration of instrument proficiency) or having the work performed as a service by our trained staff (with or without the user, depending on preference).

NFMCF - List of Equipment: <https://rsc.aux.eng.ufl.edu/resources/default.asp?s=NFMCF>

**LIST OF EQUIPMENT FOR FABRICATION:**

<https://rsc.aux.eng.ufl.edu/resources/default.asp?s=Fabrication>

**LIST OF EQUIPMENT FOR CHARACTERIZATION:**

<https://rsc.aux.eng.ufl.edu/resources/default.asp?s=Characterization>

**UF COLLEGE OF DESIGN CONSTRUCTION AND PLANNING (DCP) FABRICATION LAB: DCP FAB LAB**

The DCP Fabrication Lab at the University of Florida was created out of a collaboration between the School of Architecture and the School of Art + Art History. Since the inception of the lab in 2009, we have served our University of Florida students as well as faculty and staff, the Gainesville community and more. In 2015, the lab expanded into Infinity Hall where it continues to flourish and grow. We offer the lowest prices in the United States and access to some of the only fabrication machines in the Central Florida Area. The Fab Lab is open to the everyone: University of Florida affiliates and the public.

Link: <https://fablab.arts.ufl.edu/>