NASA's HBCU/MI Engagement Forum at Johnson C. Smith University

Claflin University

Derrick J. Swinton
MOLECULAR SCIENCES RESEARCH LABORATORY
The Claflin University Molecular Science Research Center has been designated a Research Core Facility Core Research Facility for the state by the South Carolina Research Authority because of specialized analytical equipment in the Molecular Science Research Center. Claflin has the second largest NMR in the state of South Carolina, 700 MHz Bruker NMR.

Major & Specialized Instrumentation - for Materials Characterization
- 700 MHz Nuclear Magnetic Resonance Spectrometer (NMR)
- 300 MHz Nuclear Magnetic Resonance Spectrometer (NMR)
- Bruker High Resolution Time-of-Flight Mass Spectrometer equipped with a UHPLC
- Bruker Electron Spin Resonance Spectrometer (ESR)
- Powder and Single Crystal X-Ray Diffractometers
Recently Funded Grants and Contracts

Jie Ling  Department of Energy  (Savannah River Nuclear Laboratory)
Synthesis and Characterization of Inorganic Solids with Noncentrosymmetric Structures

Derrick Swinton and Marlena Washington
MUSC Foundation for Research Development (not-for-profit 501©(3) corporation
High Throughput Screening of Obesogens

Derrick Swinton  NSF
Utilization of Advanced Biomaterials to Drive Cellular Organization and Differentiation in Vascular Grafts

Omar Bagasra  NSF
Intersection of Epigenetic Regulation and Mitochondrial Function in Autism

Marlena Washington  NSF
Lithium Sulfur Battery Design and Electrolyte Chemistry
Claflin University – Points of Contacts

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