

# Undergraduate Research Program

- Research Program at National Laboratories and Research Institutions in the US mainland, Puerto Rico and abroad for a ten-week period during the summers
- Undergraduate Research Exchange Program between UMET laboratories and MIE Institutions during the summers
- STEM students from MIE schools spend between 8 to 10 weeks at the UMET campus working in competitive research projects under the mentorship of faculty from UMET

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- Broad participation of STEM students from prestigious universities in the US mainland and Puerto Rico
- MIE Schools, HBCU, Howard University, Florida A&M University, Cornell University, University of the Virgin Islands, University of California at Berkeley, University of Puerto Rico, MIT, Johns Hopkins, among others

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## Samples of Research Projects

- “Study of the Possible Effects of Jil-1 Protein Over Telomere Gene Expression”
- “Radar Data Fusion for Autonomous Navigation”
- “OCD Therapeutic Dynamics: Markovian-Based Simulations”
- “The Relationship between the Chemistry and Microphysics of Atmospheric Aerosols at a Mid-Atlantic Suburban Site”
- “*Ad Hoc* Networking and its Security Applications”
- “Metal-Organic Frameworks as Stationary Phase in High Performance Liquid Chromatography Columns for Organic Analytes Separations”
- “Intrinsic Ca<sup>2+</sup> Variations in Hippocampal Astrocytes”
- “Relationships between Suspended Fecal Bacteria and Land Cover in Streams in the Enoree and Saluda River Basins, South Carolina”