

**College of Engineering  
Funded Grant and Contract Activity  
Aug. 15, 2005**

<b><u>Department:</u></b>	<b><u>PI:</u></b>	<b><u>Agency:</u></b>	<b><u>Title:</u></b>
<b>Electrical</b>	Alam	DOE	Smart Energy Mgt & Control System for Fuel Cell Operated Microgrid Communities
		DOD/Radiance	JWaTH: Joint Wavelet Transform Based Hyperspectral Image Processing
	Ko	USARC	Fabrication of ZnO Nanostructures by Molecular Beam Epitaxy
	Parker	Tuskegee	Modeling and Manufacturing of Structural Nanomagnetic Materials
<b>Civil</b>	Chen	DOD/ONR	Boussinesq Modeling of Alongshore Swash Zone
		EPA/ACES	Integration of Remote Sensing, Numerical Modeling and In-Situ Monitoring in Mobile Bay
	Douglass	DOT	Coastal Transportation Engineering Research and Education Center
		DOT	Highways in the Coastal Environment.
		DOT	Development and Application of Advanced Surge, Wave and Erosion Models for the Design of Coastal Highways
Hossain	BM&T	Study on the Influence of Ultrafine Fly Ash in Restrained Concrete Specimens	

	Olsen	SLBGC	Construction/Transportation Development
	White	MAWSS	Water Quality Monitoring and Evaluation of Decentralized Treatment and Re-Use
		ADEM	Coastal Alabama Onsite Sewage Disposal System Operations and Maintenance Assessment
<b>Chemical</b>	Harrison	ASTM	Royalty Agreement to Support Further Development of Chemical Engineering Energy Release Computer Program (CHETAH)
	Misra	EPA/ACES	Wavelet Based Multi-scale Modeling of Dissolved Oxygen Variations in Mobile Bay
		AI Oyster	Relationship between Fecal Coliform Bacteria and Environmental Conditions in the Context of Oyster Harvesting
<b>Mechanical</b>	Hollis	NSF/UAB	Determination of Cervical Spine Substructure Mechanical Properties
	Phan	DOD/EPSCoR	High-Strain Rate Fracture of Heterogenous Materials with Micro and Nano Fillers
	Dougherty	EPA/ACES	Meteorological Modeling of Hurricanes and Coastal Interactions
<b>Dean's Office</b>	Foley	NSF	Computer Science, Engineering, and Math (CSEM) Research Scholarships

NASA

Summer Camp in Robotics, Engineering and Math (SCREAM)