



# ALABAMA NASA EPSCoR



## Marshall Space Flight Center

Y. KEVIN CHOU / KENNETH COOPER, STEVEN BURLINGAME, MAJID BABAI – “Electron Beam Additive Fabrication Technology for Rapid Manufacturing of Space Vehicle Hardware” & “Thermomechanical and Powder Sintering Aspects in Electron Beam Additive Manufacturing: Applications to Overhang Support Designs”  
*University of Alabama*

LINGZE DUAN / DAVID SMITH – “Compact Semiconductor Lasers with Ultra-high Frequency Stability”  
*University of Alabama in Huntsville*

JUNPENG GUO / ANGELA SHIELDS – “Investigation of Optical Antennas for Energy Harvesting”  
*University of Alabama in Huntsville*

SARMA L. RANI / JEFF WEST – “Prediction of Combustion Dynamics in Rocket Engines through Computational Enhancements in Loci-CHEM”  
*University of Alabama in Huntsville*

T. GRANT GLOVER / JIM KNOX – “Carbon Dioxide Adsorption in Composite Adsorbent-Supported Ionic Liquid Materials”  
*University of South Alabama*

## Langley Research Center

KUANG-TING HSIAO / JUSTIN R. JACKSON – “Development of Prepreg and Out-of-Autoclave Process for Z-Aligned Carbon Nanofiber Toughened Lightweight Composites”  
*University of South Alabama*



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## Glenn Research Center

- AJAY K. AGRAWAL / CHI-MING LEE – “Experimental Investigation of Noise and Thermo-acoustic Instabilities in Low-Emission, High-Efficiency Combustion Systems for Aviation”  
*University of Alabama*
- JUNPENG GUO / MICHAEL J. KULIS – “On-Chip Nanostructure Surface Plasmon Enhanced Raman Spectroscopy Sensor for Space Applications”  
*University of Alabama in Huntsville*

## Johnson Space Center

- T. GRANT GLOVER / JOHN GRAFT – Space Grant Foundation NASA eXploratory Habitat (Xhab)  
*University of South Alabama*

## Kennedy Space Center

- JABER A. ABU QAHOUC / NASA ELECTRICAL POWER TECHNICAL DISCIPLINE TEAM – “Distributed Energy Storage System Architecture and control for Longer and Healthier System Life and Energy Sharing for Space and Vehicle Applications”  
*University of Alabama*
- T. GRANT GLOVER/ TRACY GILL & KELLY GATTUSO – Space Grant Foundation NASA eXploratory Habitat (Xhab)  
*University of South Alabama*