

FY 22/23 Request for Research Funding
July 31, 2022

FTO-23-02		Development of Modeling Framework for Modeling Micromobility	Thomas Hill/Vladimir Majano	Approved
GEO-23-01		Effect of Spacing on Axial Resistance of Augercast Pile Foundation	Rodrigo Herrera/ Juan Castellanos	Approved
GEO-23-02		Implementation of Shallow Foundations on Florida Limestone in FB-MultiPier	Rodrigo Herrera/ David Horhota	Approved
GEO-23-03		Determination of In-situ Rock Density and Strength with SH- Love Wave Tomography	David Horhota	Approved Scope under review
GEO-23-04		Vibrations and Ground Deformations Due to Road Compaction	Larry Jones	Approved
OOM-23-01		Enhancement of AASHTOWare Bridge Management for Florida's Bridge Inspection and Asset Management	Felix Padilla	Approved
MPO-23-01		MPO List of Project Priorities Development Practices	Mark Reichert	Approved
PTO-23-01		A Comparative Analysis of Alternative Fuel Fleet of Buses (AFB) to Enhance Mobility in Central Florida	Tony Brandin	Approved
PTO-23-02		Economic Impact Assessment of Florida's Transit Services	Gabe Matthews	Approved
PTO-23-04		Mobility Hub Identification Process for Florida	Gabe Matthews	Approved
PMO-23-01		Updates to Estimates Pricing Algorithms and Market Areas	Karen Veenstra	Approved
SMO-23-01		3D Pavement Surface Data to Enhance Roadway Safety	James Greene	Approved Scope under review
SMO-23-03		Benchmarking Florida Asphalt Mix Design Performance	Greg Sholar	Approved Scope under review
SMO-23-04		Evaluation of Superpave, Superpave 5, and Stone Matrix Asphalt	Howie Moseley	Approved

SMO-23-05		Evaluation of Type XI Retroreflective Sign Sheeting Materials by Accelerated Laboratory Weathering	Awilda Merced	Approved
SMO-23-06		Evaluation of Coating Materials Using Accelerated Laboratory Weathering Test Protocol	Rodrigo Antunes	Approved
SMO-23-09		Evaluation of Quiet Pavement	Ohhoon Kwon	Approved
STR-23-01		FSBs with HSSS Strands and GFRP Shear Reinforcing	Vickie Young	Approved
STR-23-02		Fiber-Reinforced Concrete Traffic Railings, Phase II	Christina Freeman	Approved
STR-23-03		Assessment and Optimization of the Casting Procedure for UHPC Structural Elements	Christina Freeman	Approved
STR-23-04		UHPC Pile Splice	Christina Freeman	Approved
SIO-23-01		Trip Generation Study for Popular Coffee Shop with Drive-through and Popular Fast Food with Drive-through	Gina Bonyani	Approved
TEO-23-01a		I-4 Florida's Regional Advanced Mobility Elements (FRAME) After-Studies	Raj Ponnaluri	Approved
TEO-23-01b		I-4 Florida's Regional Advanced Mobility Elements (FRAME) After-Studies	Raj Ponnaluri	Approved
TEO-23-01c		I-4 Florida's Regional Advanced Mobility Elements (FRAME) After-Studies	Raj Ponnaluri	Approved
TEO-23-01d		I-4 Florida's Regional Advanced Mobility Elements (FRAME) After-Studies	Raj Ponnaluri	Approved
TEO-23-02		Evaluation of the Deployment of Arterial Service Patrol Program in Central Florida	Jeremy Dilmore/Shawn Kinney	Approved
TEO-23-03		Human Factors Study to Understand Driver Behavior on Managed Lane Facilities	Raj Ponnaluri/Gail Holley	Approved

TEO-23-05		Developing and Evaluating Smart Work Zone (SWZ) Applications	Jeremy Dilmore/Eric Gordin/Edith Wong	Approved
TEO-23-06		Before and After Evaluation of the Smart Bay Connected and Automated Vehicle for Advanced Safety and Mobility Along US 98	Amy DiRusso/Raj Ponnaluri	Approved
TEO-23-07		Evaluating the Effectiveness of the Strategic Response Plan to Wrong-way Driving Events on Freeways	Edith Wong/Eric Gordin/ Jeff Frost	Approved
TEO-23-08		Evaluation of Innovative Pedestrian Detection and Warning Systems to Increase Safety	Alan El-Urfali	Approved
TEO-23-09		Developing Data Sources and Standards for Supporting Arterial TSM&O Implementation of the Statewide Arterial Management Program (STAMP)	Raj Ponnaluri	Approved
TEO-23-10		Integrated Corridor Management (ICM) on Limited Access Facilities: A Case Study of I-95	Mark Plass/Fred Heery	Approved
TEO-23-11		Optimization of Signal Timing Based on Pedestrian Intervals Using Computer Vision and Deep Learning Technology	Jeremy Dilmore	Approved
TEO-23-13		Strategies to Address Head-on Crashes	JoEllyn Guthrie	Approved
TEO-23-16		Performance Evaluation of Safe Mobility for Life Coalition's Outreach Activities	Gail Holley	Approved
TEO-23-17		Benefit-Cost Analysis to Use Big Data via DataService - A Focused Study Using Near-Miss Data to Improve Pedestrian and Bicycle Safety	Peter Hsu	Approved
TEO-23-19		A Deep Learning-based Network-wide Traffic Prediction Model for Integrated Corridor Management Systems	Jeremy Dilmore/Raj Ponnaluri/Thomas Hill	Approved
TEO-23-21		Explore the Use of Tele-operated/Autonomous Vehicle (AV) to Assist Road Ranger Service Patrol (RRSP) in Responding to Incidents	Edith Wong	Approved

TEO-23-23		Strategies for Transportation System Management and Operational Enhancement of Arterial Roadway	Edith Wong	Approved
TEO-23-A		Design, Development, and Evaluation of an Optimal On-Board Unit Display for Transit Buses	Edith Wong	Approved
FTE-23-01		Test Use Case Design for Cooperative Driving Automation at SunTrax	John Easterling	Approved