

FY 24/25 Request for Research Funding

May 1, 2025

D4-25-01	BED27 977-06	Express Lanes Benefitting Freight Mobility: Can Lane Systems and its Benefits to General-Purpose Lanes Improve Freight Mobility?	Carlos Castro	Pending execution
D5-25-03	BED32 977-03	Guardrail Height Safety Requirements Given Recent Crash History and Evolution of Vehicle Design	Scott Kirts	Executed
D7-25-01		Integrated Approaches to Establishment, Mowing, and Weed Control for Florida Roadside Turfgrasses	Anita Montjoy	Scope under review
GEO-25-01	BED26 977-20	Measuring Rebound During Pile Driving Using Ultra-High Speed/resolution Photogrammetry	Rodrigo Herrera	Pending execution
GEO-25-03		Remote Sensing for Sinkhole Risk Assessment of Central Florida Transportation Infrastructure	Kelly Shishlova	Scope under review
MPO-25-01		A Snapshot of Florida MPOs: MPO Staffing and Organization Arrangements in Florida	Mark Reichert	Withdrawn
OET-25-01	BED31 977-35	I-STREET: Advancing Emerging Technologies Collaboration	Jeremy Dilmore	Executed
OET-25-02		Artificial Intelligence (AI) Applications to Enhance Transportation Safety	Jeremy Dilmore	Scope under review

OET-25-03		Intra-Agency Alignment and Information Exchanges to Support the Adoption and Implementation of Digital Twin	Jeremy Dilmore	Scope under review
OET-25-04	BED29 977-12	Application of Digital Twins for Testing Connectivity, Automation, and Cooperation Applications	Jeremy Dilmore	Executed
OET-25-05	BED26 977-21	Utilizing Digital Twinning Technologies for Addressing FDOT Priorities	Jeremy Dilmore	Pending execution
OET-25-06	BED29 977-13	Technology Solutions to Enhance Rail Safety	Jeremy Dilmore	Executed
OET-25-07	BED26 977-18	Network Level Proactive Traffic Operations Indicator (NPTOI) Using Artificial Intelligence (AI) and Connected Vehicle Data Integration	Jeremy Dilmore	Executed
PTO-25-01	BED30 977-20	Enhancing Transit Demand Estimation with Emerging Data-as-a-Service (DaaS)	Chris Wiglesworth	Pending execution
RDO-25-01 DOT-RFP-25-9039-DG	BEI87	Detailed Event Mean Concentrations on Transportation Facilities	Jennifer Green	Pending execution
SIO-25-01		Developing Guidelines for Implementing Managed Lanes Strategies on Arterials	TBD	Withdrawn
SMO-25-01	BED34 977-02	Synthesis of Effective Treatments to Address Settlement at Approach Slabs	Howie Moseley	Executed

SMO-25-02		Development of Durable Auger-Cast Pile Grout Mix Designs Free of Early-Age Cracking	David Cerlanek	Withdrawn
SMO-25-03	BEI75	Pavement Deflection Considerations for Improved Rehabilitation Strategies possible new title: Improved Modulus Determination Using Falling Weight Deflectometer	Guangming Wang	Pending execution
SMO-25-04		Establish Value Ranges for Critical Performance Indicators That Can Be Used to Identify Durable Mix Designs for All Concrete Elements and Exposures	Jamie Greene	Scope under review
SMO-25-05		Implementation Tool for Performance Engineered Mix-design/Specification for Pavement Concrete	Ohhoon Kwon	Scope under review
SMO-25-07		Perpetual Pavement Concepts Optimized for Florida	Kyle Kroodsma	Withdrawn
SMO-25-08	BED31 977-38	Identification of Alternative Coarse and Fine Aggregates and Specifications for Evaluation	John Shoucair	Executed
SMO-25-10	BED25 977-28	Field Durability Survey and Evaluation of Drilled Shafts and Auger-Cast Piles for Cracking and DEF	Dale DeFord	Executed
SMO-25-12	BED30 977-19	Development of an Experimental Sampling Plan to Address Statistical Variability Associated with Sampling Asphalt Mixtures from the Roadway	Jim Musselman	Executed

SMO-25-13	BED33 977-04	Assessment and Implementation of Three-Dimensional Ground Penetrating Radar for Evaluating Florida's Infrastructure	Mateo Carvajal	Executed
SMO-25-14		Quantification of the Degradation of FC-5 Functionality and Possible Solutions	Jim Musselman	Withdrawn
SMO-25-15		The Estimation of Service Life for Pavement Markings Pavement Marking Data Integration, Performance Prediction, and Maintenance Management	Guangming Wang	Scope under review
STR-25-01	BED25 977-29	Grouted Post-Installed Concrete Anchorages	Steven Nolan	Executed
STR-25-02	BED31 977-37	Investigating the Performance of Corrosion-Resistant GFRP-Reinforced Bridge Railings With Open Expansion Joints	Yukai Yang	Executed
STR-25-03	BED25 977-26	Post-Tensioned Post-Installed Grouted Concrete Anchorages	Olga Iatsko	Executed
TEO-25-01	BED31 977-34	Evaluation of the Effectiveness of Passive Pedestrian Detection Systems	Derek Vollmer	Executed
TEO-25-04	BED25 977-27	Innovative Signal Timing Design and Operation Strategies to Improve Nighttime Arterial Safety	Edith Wong	Executed
TEO-25-05	BED30 977-18	Stand-alone CCTV from Flexible Solar Panels	James Landini	Executed

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