

FY 18/19 Request for Research Funding – Status Report

Project Number	Title	Project Manager	Status
D4-19-01	Survey Florida Traffic Characteristics for Capacity and Level of Service Evaluations	Chon Wong/Gina Bonyani	Approved
D5-19-01	Timely, dynamic, and spatially accurate roadway incident information to support real-time management of traffic operations	Jeremy Dilmore	Approved
D6-19-01	Investigation of E-Commerce Enabled Freight Demand and Activities in Residential Areas	Neil Lyn	Approved
FTO-19-01	Identifying and Tracking Emerging Transportation Trends and Indicators	Jessica VanDenBogaert	Scope under review
FTO-19-02	An Integrated Modeling Framework to Support Decisions Related to Automated, Connected, Electric, and Shared (ACES) Vehicles	Thomas Hill/Vladimir Majano	Pending additional review
FTO-19-03	The Growth of Home Delivery and its Impacts on Florida's Urban Freight Transportation Infrastructure	Frank Tabatabaee	Pending additional review
FTO-19-04	Evaluating Transportation System Performance on Hurricane Irma and Improving Evacuation Strategies	Thomas Hill	Pending additional review
FTO-19-05	Using Next Generation Vehicle Trajectory Data in Planning and Engineering Applications	Monica Zhong	Approved
FTO-19-06	Identifying and Modeling Florida's Vulnerable Transportation Infrastructure for Coastal Flooding	Thomas Hill	Pending additional review
FTO-19-07	Incorporating Tourism Travel into the Florida Statewide Model	Thomas Hill	Approved
FTO-19-08	Truck Freight Tonnage Study	Monica Zhong/Frank Tabatabaee	Approved
FMO-19-01	Development of the Optimization Model for Improving Safety at Rail Crossings in Florida	Rickey Fitzgerald	Executed – BDV30 977-26
GEO-19-01	Field Load Testing of Florida Limestone	Rodrigo Herrera	Pending additional review
GEO-19-02	Development of GS-Deep Software	Rodrigo Herrera	Approved
GEO-19-03	Prediction Model of Vibration-Induced Settlement due to Pile Driving	Larry Jones	Approved
MNT-19-01	Impact of Heavy Trucks and Permitted Overweight Loads on Highways and Bridges now and in the future versus Permit Fees, Truck Registration Fees, and Fuel Taxes	Richard Kerr/Thomas Beitelman	Advertised DOT-RFP-19-9031-SJ
MNT-19-02	The Reliability of Prestress Shear Analysis	Andrew DeVault	Pending additional review
PSO-19-01	Measuring the Impact of Florida Scenic Highway Designation	Jeff Caster	Approved

RD-19-01	Bicycle LOS Methodology for Emerging Facility Types and Lane Elimination Projects	Maria Overton/DeWayne Carver	Pending additional review
SMO-19-01	Accelerated Outdoor Weathering Assessment by Laboratory Testing	TBD	Scope under review
SMO-19-02	Durability Improvement and Weight Reduction of Structural Elements Using Ultra-High-Performance Concrete (UHPC)	Dale DeFord	Approved – pending completion of Phase I
SMO-19-03	Impact of Incentive/Disincentive Specifications on Long-Term Asphalt Pavement Performance	Bouzid Choubane	Scope under review
SMO-19-04	Macrotexture Assessment of Florida Pavements	Charles Holzschuher	Scope under review
SMO-19-05	Effects on the Service Life of Aluminized Steel Corrugated Pipe with visible and not Visible Coating Deficiencies Within the Lock Seam	Ron Simmons	Scope under review
SMO-19-06	Development of a laboratory testing protocol to evaluate alternative materials for use in modifying asphalt binders and alternative materials for use in modifying asphalt mixtures	Greg Sholar	Scope under review
SMO-19-07	Evaluation of Florida Department of Transportation Corrosion Prevention and Corrosion Control Program	Matthew Duncan	Scope under review
SMO-19-08	Investigation of tack coat degradation and effect on pavement performance. Investigation of the impact of milling and construction on the bond strength of remaining thin (scab) layers	Wayne Rilko/Howie Moseley	Approved
SMO-19-09	Use of Infrared Thermography for the Inspection of Welds in the Shop and Field	Tim McCullough	Scope under review
SMO-19-10	Testing Protocol and Material Specifications for Basalt Fiber Reinforced Polymer Bars	Chase Knight	Advertised DOT-RFP-19-9032-KW
SMO-19-11	Raised Pavement Markers (RPM) Assessment Using Highway Speed Mobile Retroreflectivity Technology	Charles Holzschuher	Pending advertisement
SMO-19-12	Durability of Structural Concrete Exposed to High Temperatures During Curing	Dale DeFord	Not approved
SMO-19-13	Use of RFID Technology to Trigger Data Collection by Inertial Profilers and Other High Speed Non-Destructive Testing Equipment	Abdenour Nazef	Not Approved
SMO-19-14	Design and Performance of Open-Graded Friction Course (OGFC) Mixtures Containing Epoxy Asphalt	Ahmad Chami	Advertised DOT-RFP-19-9030-CA
SMO-19-15	Performance Comparison of Portland-Limestone Cement (PLC, Type 1L) with Type I/II in Structural Concrete	Dale DeFord	Not Approved

SMO-19-16	Correlation of Chloride Durability, Sulfate Durability, and Cracking Tendency with Slag Cement Composition for Portland Cement-Slag Concrete	Dale DeFord	Not Approved
STR-19-01	Epoxy Dowel Pile Splice Evaluation	Will Potter/Christina Freeman	Advertised RFRP-19-002
STR-19-02	Evaluation of GFRP Spirals in Corrosion Resistant Concrete Piles	Will Potter/Christina Freeman	Approved
STR-19-03	Evaluation of Reinforced Concrete Crack Control Guidelines	Will Potter/Christina Freeman	Advertised RFRP-19-003
STR-19-04	Evaluation of Concrete Pile Footing Connections	Will Potter/Christina Freeman	Advertised RFRP-19-001
STR-19-05	Development of GFRP Reinforced Single Slope Bridge Rail	Will Potter/Christina Freeman	Approved
SIO-19-01	Bicycle LOS Methodology for Emerging Facility Types and Lane Elimination Projects	Maria Overton/DeWayne Carver	Pending additional review
TEO-19-01	Development of Low Voltage/Extended Runtime Signalized Intersection Using Backup Power After the Loss of Utility Power Due to Hurricanes	Jeff Morgan/Fred Heery	Advertised DOT-RFP-19-9033-GH
TEO-19-02	Developing Florida-specific Mobility Enhancement Factors (MEFs) and Crash Modification Factors (CMFs) for TSM&O Strategies	Raj Ponnaluri/Melissa Ackert	Executed BDV29 977-46
TEO-19-03	Developing Safety Performance Functions (SPFs) for Florida Intersections based on Context Classification System of Roadways	Alan El-Urfali	Scope under review
TEO-19-04	Design and Develop a Web-based Interactive Map Prototype to Visualize Transportation Service Gaps for Florida's Vulnerable Population	Gail Holley	Approved
TEO-19-05	Guidelines for Installing Pedestrian Channelization Barriers at Midblock Locations	Yujing Xie	Approved
TEO-19-06	Operational and Safety Impacts of Freeway Congestion on Adjacent Arterials: Case Study of Districts 2, 4, and 6	Peter Vega	Pending additional review
TEO-19-07	Move Over Law: The Impact of Road Ranger Deployments, Vehicle-Mounted Arrow Boards and Upstream Changeable Message Signs (CMS) on Driver Compliance, Responder Safety and Financial Impact	Shawn Kinney/Jeff Frost	Pending additional review

TEO-19-08	Quantifying the Extent and Impact of Slow Left-Lane Drivers on Florida Limited Access Facilities and Major Arterials Study	Alan El-Urfali	Not approved
TEO-19-09	Utilizing Medium-Resolution Signal System Data to Improve Signal Retiming Processes	Melissa Ackert	Pending additional review
TEO-19-10	Florida Connected Bicycle Pilot Deployment Initiative	Raj Ponnaluri	Pending additional review
TEO-19-11	Development of Dashboard for Multimodal Performance Measures based on Operational Intersection Data	Melissa Ackert	Pending additional review
TEO-19-12	Extended Development and Testing of Optimized Signal Control with Autonomous and Connected Vehicles	Raj Ponnaluri	Scope under review
TEO-19-13	Development of Proven Countermeasures and New Techniques on Speed Management	Humberto Castillero	Not approved
TDA-19-01	Effectiveness of Unmanned Vehicles to Reduce Airplane Bird Strikes at Airport	Ed Hutchinson/ Aaron Smith	Not approved - Withdrawn
TDA-19-02	Civil Engineering Support for the Traffic Monitoring Program	James Whitley	Pending additional review
TDA-19-03	Evaluating GPS Data Applications in Urban and Rural Multimodal Freight Generators	Joel Worrell	Pending additional review
TDA-19-04	Effective Communication on Connected Vehicle Messages by a State Agency	Ed Hutchinson/Raj Ponnaluri	Withdrawn
TDA-19-05	Operations of Advanced Sonar to Inspect Bridges in Adverse Conditions	Ed Hutchinson/Richard Ketter	Not approved - Withdrawn
TDA-19-06	Development of Motorcycle VMT Estimation Method Using a Hybrid Approach	Joey Gordon	Pending additional review
PTO-19-01	Improving Data Accessibility for Transit Service Planning	Gave Matthews/Chris Wigglesworth	Scope under review
TPK-19-01	Impact of Connected/Automated Vehicles (CAVs) on the Capacity of Limited Access Facilities and Arterial Streets	Rax Jung	Pending additional review
TPK-19-02	Strategies to Identify and Mitigate Secondary Crashes using Real-time Traffic Data on Florida's Turnpike System	Eric Gordin	Pending additional review
TPK-19-03	Evaluating Alternative Designs and Customer Choices for the Florida Turnpike Enterprise Express Lanes	Rax Jung	Not approved

Updated 10/31/18

For projects identified as approved, approval is contingent upon an acceptable scope of work, budget and deliverables schedule. Approved status does not authorize universities or vendors to incur any expenses in preparation of scope or hiring of project personnel.

Projects identified as pending further review require additional review, consideration and coordination.