

FY 17/18 Request for Research Funding Status Report

Project Number	Title	Project Manager	Status
D1-18-01	Section 5310 Grant Program: Assessment of Current Utilization and Development of Strategies to Optimize Target Markets Mobility Services	Paul Simmons/ Michelle Peronto	BDV25 TWO 977-55 - Executed
D7-18-01	Assessment of Transportation Infrastructure Needs for Autonomous/Connected Vehicles via Virtual Reality Simulations	Ming Gao/Ron Chin	Not approved in current fiscal year
D7-18-02	Design of UAV-based Platform for Real-Time High-Density Traffic Monitoring and Data Collection	Ron Chin	Not approved in current fiscal year
CST-18-01	Low Profile Barrier Crash Testing	Daniel Strickland	Not approved in current fiscal year
FMO-18-01	Incorporating Reliability Measures into Freight Project Prioritization Decision Support System	Rickey Fitzgerald	BDV29 TWO 977-42 – Executed
FMO-18-02	Land Use Analysis to Enhance Successful Logistics Activity Center Development in Florida	Rickey Fitzgerald	Not approved in current fiscal year
FMO-18-03	Building a Seamless Transition Between FDOT District Freight Networks and Strengthening Their Interaction with Land Use	Rickey Fitzgerald	Withdrawn
GEO-18-01	Comparison of Standard Penetration Test (SPT) N-value with Alternative Field Test Methods in Determining Moduli for Settlement Predictions	Larry Jones	BDV24 TWO 977-29 - Executed
GEO-18-02	Sinkhole Detection with 3-D Full Elastic Seismic Waveform Tomography	David Horhota	BDV31 TWO 977-82 – Executed
GEO-18-03	Estimating Soil Pressure Against Unyielding Surfaces	Rodrigo Herrera/ Jose Hernando	BDV31 TWO 977-89 – Executed
GEO-18-04	Determining Bearing Resistance of Cantilever Sheet Piles	Juan Castellanos	BDV31 TWO 977-90 – Executed
GEO-18-05	Laboratory Investigation of Damaged Zone in Rock from Pile Driving	Rodrigo Herrera	Not Approved
MNT-18-01	Redundancy of Twin Steel Box Girder Bridges	Richard Kerr/ Thomas Beitelman	BDV29 TWO 977-40 – Executed
MPO-18-01	Review of MPO Long Range Transportation Plans and Estimate of Statewide 2040 Metropolitan Area Financial Shortfall	Carl Mikyska	Not Approved
OPP-18-01	MPO and Transit Agency Planning Coordination	Mark Reichert	BDV25 TWO 977-49 - Executed
OPP-18-02	2018 Assessment of the Practice of Public Involvement in Florida	Rusty Ennemoser /Mark Reichert	BDV25 TWO 977-46 - Executed
OPP-18-03	When Will Autonomous and Alternative Fueled Vehicles Account for the Majority of State Vehicle Miles Travelled?	Mark Reichert	BDV25 TWO 977-48 - Executed
RDO-18-01	Innovative and Integrative BMPs for Surface and Groundwater Protection	Katey Earp	Advanced FY17 – Executed

Project Number	Title	Project Manager	Status
SMO-18-01	Development of Standard Methodology to Measure Sulfate Ions in Post-Tensioned Grouts	Ivan Lasa	BDV29 TWO 977-43 – Executed
SMO-18-02	Evaluation of Roadway Worms/Distortions	Greg Sholar	BE491 - Executed
SMO-18-03	Recycled and Repurposed Cementitious Materials for Use in Concrete	Dale DeFord	Advanced FY17 – Executed
SMO-18-04	Removal of Moisture in Tendon Ducts to Prevent Corrosion	Ivan Lasa/Matt Duncan	Withdrawn – work being incorporated into BDV31 977-58 w/Trey Hamilton & Will Potter
SMO-18-05	Study of the Potential Benefits of Anti-Strip Additives on Granite Based FC-5 Asphalt Mixes	Howie Moseley	BE555 – Executed
SMO-18-06	Reducing Portland Cement Content and Improving Concrete Durability	Dale DeFord	BDV31 TWO 977-86 - Executed
SMO-18-07	Enhanced Hydroplaning Prediction Tool	Charles Holzschuher	BE570 – Executed
SMO-18-08	Evaluation of the Effect of Homogeneity of the Binder on Performance of the Recycled Mixture	Greg Sholar	Advanced FY17 – Executed
SMO-18-09	Field Demonstration of Tendon Imaging Methods and Instrument Development	Adrian Steele	BDV25 TWO 977-52 – Executed
SMO-18-10	Development of a Procedure for Evaluating and Approving Liquid Anti-Strip Agents	Ahmad Chami	BE585 – Executed
SMO-18-11	Investigation of Thermoplastic Softening and Shrinkage and the Effects on Asphalt Pavement	Nikita Reed	Not approved in current fiscal year
SMO-18-12	Evaluation of the Cracking Performance of Asphalt Binders at Intermediate Temperatures	Cassady Allen	BDV31 TWO 977-83 - Executed
SMO-18-13	Quantifying the Duration of the Corrosion Propagation Stage in Stainless Steel Reinforcement	Ron Simmons	BDV25 TWO 977-56 - Executed
SMO-18-14	Reducing Portland Cement Content and Improving Concrete Durability by Decreasing Paste Content	Dale DeFord	Not Approved
SMO-18-15	Development of Magnetic NDT Equipment for Field Inspection of Internal Tendons	Ivan Lasa/ Matt Duncan	BDV29 TWO 977-45 – Executed
SMO-18-16	Accelerated Corrosion Testing of Grouts for PT Steel Strand	Matt Duncan	BDV29 TWO 977-44 – Executed
STR-18-01	Flexural Capacity of Concrete Elements with Bonded and Unbonded Prestressing	Will Potter/ Christina Freeman	BDV31 TWO 977-93 - Executed
STR-18-02	Shear Interface Design Values for Precast Pile to Pier Cap Connections	Will Potter/ Christina Freeman	BDV29 TWO 977-39 - Executed
STR-18-03	Development of Precast Single Slope Bridge Rail	Will Potter	Withdrawn
STR-18-04	Investigation of Tapered Bearing Pads for Sloped Profiles	Christina Freeman/ Will Potter	BDV31 TWO 977-95 – Executed
SPO-18-01	Evaluation of Managed Lanes Facilities including the Adoption of Connected Vehicles	Jennifer Fortunas /Maria Overton	Not approved in current fiscal year

Project Number	Title	Project Manager	Status
TEO-18-01	Integration of a Robust Automated Pedestrian Detection for Signalized Intersections	Humberto Castellero	BDV25 TWO 977-44- Executed
TEO-18-02	Interchange Design to Accommodate Ramp Metering System	Jeremy Dilmore/ Jennifer Fortunas	BDV31 TWO 977-92 - Executed
TEO-18-03	Evaluation of Innovative Alternative Intersection Designs in the Development of Safety Performance Functions and Crash Modification Factors	Alan El-Urfali	BDV24 TWO 977-27 - Executed
TEO-18-04	Application of Dynamic Crash Prediction Methodologies to FDOT Safety and Transportation System Management and Operational (TSM&O) Programs	Melissa Ackert /Yujing Xie/Jeff Frost	BE548 - Executed
TEO-18-05	Connective Vehicle Vehicle-to-Infrastructure Support of Active Traffic Management	Javier Rodriguez/ Fred Heery	BDV29 TWO 977-41 - Executed
TEO-18-06	Commercial Heavy Vehicle Impacts on Signalized Arterial Corridor Performance	Raj Ponnaluri	BDV25 TWO 977-50 - Executed
TEO-18-07	Effect of Real-time Traffic Data on Truck Diversion Routing on I-75	Jeremy Dilmore/ Raj Ponnaluri	BDV24 TWO 977-28 - Executed
TEO-18-08	Roundabout Design Considerations for Older Drivers	Alan El-Urfali/Gail Holley	Not Approved
TEO-18-09	Data and Modeling Support of Off-Line and Real-Time Decisions Associated with Integrated Corridor Management	Melissa Ackert/ Jeremy Dilmore/ Fred Heery	BDV29 TWO 977-38 - Executed
TEO-18-10	Evaluating Strategies for the Implementation of Hard Shoulder Running in Florida	Fred Heery	Not Approved
TEO-18-11	Evaluating Network Impacts from TSM&O Transit Strategies	Jonathan Ford/ Raj Ponnaluri	Approved – not submitted in FY18
TEO-18-12	Leveraging Big Data for Traffic Applications	Jeremy Dilmore/ Raj Ponnaluri	BDV31 TWO 977-97 - Executed
TDA-18-01	Florida Cruise Ports Surface Transportation and Mobility Analysis	Gabrielle Matthews	Approved
TDA-18-02	Effective Planning Through Identification and Evaluation of Inventory Methods for Multimodal Data - Pilot Study for Florida SUN Trail Assets	Joel Worrell/ Robin Birdsong	BDV25 TWO 977-47 - Executed
TDA-18-03	Automated Truck Classification for Commodity Flow Analysis	Jerry Scott	BDV31 TWO 977-81 - Executed
TDA-18-04	Multiresolution Analysis of the Impacts of Complete Streets on Efficiency, Safety, and Environment of Urban Corridors	Thomas Hill	BDV27 TWO 977-13 – Executed
TDA-18-05	Unifying Disparate Bluetooth Traffic Data	James Whitley	Not approved in current fiscal year
TDA-18-06	Fiber-optic Connectivity Study for Telemetered Traffic Monitoring Sites (TTMS)	James Whitley	Not Approved
TDA-18-07	National Accessibility Evaluation Pooled Fund Study	Doug McLeod	Approved

Project Number	Title	Project Manager	Status
TDA-18-08	Estimation of System Performance and Technology Impacts to Support Future Year Planning	Thomas Hill	BDV29 TWO 977-37 - Executed
TDA-18-09	Toward a More Efficient Network Structure for Travel Demand Modeling	Thomas Hill	BDV31 TWO 977-87 - Executed
TDA-18-10	Developing Florida's Bicycle and Pedestrian Demand Forecasting Methodology	Thomas Hill	Not Approved
TDA-18-11	Civil Engineering Support for the Traffic Monitoring Program	James Whitley	BDV30 TWO 977-21 - Executed
TDA-18-12	Mobility Measurement in Urban Transportation Pooled Fund Study	Doug McLeod	Approved
TDA-18-13	Lidar Data Collection for Planning Purposes: Incorporating Lidar into Existing Procedures		No approved in current fiscal year

Updated 06/29/2018

Please note: Projects which have been approved for the fiscal year 2017-18 program that are not received (i.e., draft scope) by December 31, 2017 will need to be resubmitted and ranked with the fiscal year 2018-2019 research requests.

Approval is contingent upon an acceptable scope of work, budget and project timeline. Approved status does not authorize universities or vendors to incur any expenses in preparation of scope or hiring of project personnel.

Pending further review projects require additional review and coordination.