

FY 20/21 Request for Research Funding  
July 31, 2020

D6-21-01		Assess the Impacts of Autonomous Connected Electric and Shared (ACES) Mobility	Neil Lyn	Approved
AV-21-01		Counting Airport Operations Using Aircraft Transponder Signals and/or Aircraft Automatic Dependent Surveillance-Broadcast (ADS-B) Data	Abdul Hatim	Approved
OPP-21-01		Incorporation of Climatic and Hydrologic Nonstationarity and Deep Uncertainty into FDOT Planning and Design Guidelines and Processes	Jennifer Carver	Approved
OPP-21-02		Development of Geospatial Framework to Support Robust Analysis of Transportation Infrastructure to Climate Impacts	Jennifer Carver	Approved
OPP-21-04		Focused Law Enforcement Survey Design	Brian Watts	Approved
OPP-21-07		Crashes Related to Driveway Access in the Vicinity of Interchanges	Gina Bonyani	Approved
OPP-21-08		Crashes Related to Types of Driveway Access	Gina Bonyani	Approved
PTO-21-01		Assessment of the Mobility Energy Productivity (MEP) Metric for Public Transit Applications in Florida	Gabe Matthews	Approved
PTO-21-02		Examining Data Needs and Implementation Process of AV-based Microtransit Service: A Case Study in Lake Nona	Gail Holley/Raj Ponnaluri/Gabe Matthews	Approved
SMO-21-01		NEXTGEN Concrete - The Tests of the Future	Tim Ruelke	Approved to PM & PI w/comments
SMO-21-02		Improved Resilience of Asphalt Pavements Due to Flooding	Greg Sholar	Approved
SMO-21-03		Practical Mix Design Guidelines for Reflective Cracking Resistant Mixtures - continuation study	Howie Moseley	Approved
SMO-21-04		Field Temperature Profiles of Drilled Shafts and Auger-Cast Piles - continuation	Jose Armenteros	Approved

SMO-21-05		Impact of Increased Allowable Truck Loads on Pavement Life		Approved
SMO-21-06		Improved Resilience of Rigid Pavement Systems		Approved
SMO-21-08		Review of Open-Graded Friction Courses Suitable for Suburban Environments	Wayne Rilko	Approved
SMO-21-09		Development of a Test to Quantify Organic Content in Silica Sand	John Shoucair	Approved
SMO-21-10		Local Calibration for AASHTO Pavement ME, Version 2.6	Mary Jane Hayden	Approved
STR-21-01		Detailing of Externally Bonded FRP for Shear Strengthening	Will Potter/Ivan Lasa	Approved
STR-21-02		Wound FRP Shear Reinforcement for Concrete Structures	Will Potter/Steve Nolan	Approved
STR-21-03		Quantifying the Effect of UHPC Fiber Dispersion and Orientation in Structural Members	Will Potter/Christina Freeman	Approved
STR-21-04		Anchorage Zone of PT Pier Caps Integral with Steel Girders	Will Potter	Approved
STR-21-05		Confinement Effect of Narrow Baseplates or Reaction Area on Anchor Breakout, Part 2	Will Potter/Steve Nolan	Approved
STR-21-06		Straight Steel I-Girder Bridges with Skew Index Approaching 0.3	Will Potter/Vickie Young	Approved
TDA-21-01		Development of Motorcycle VMT Estimation Method Using a Hybrid Approach	Joey Gordon	Approved
TEO-21-01		Human Factors Study on the Use and Effectiveness of Innovative Safety Messages on Dynamic Message Signs	Dana Knox/John Easterling	Approved

TEO-21-02		Environment for Testing and Assessing Infrastructure Support of Connected Vehicle and Cooperative Highway Automation Applications	Raj Ponnaluri/Javier Rodriguez (D6)	Approved
TEO-21-03		Development of Crash Modification Factors for Speed Management Using Pedestrian-friendly Traffic Signal Progression	Alan El-Urfali	Approved To PI & PM w/comments
TEO-21-04		Guidelines for Activating Ramp Meters During Off-peak hours to Reduce Non-Recurring Congestion	Raj Ponnaluri/Alejandro Motta (D6)	Approved
TEO-21-05		Performance Evaluation of Connect Vehicle (CV) Projects in Florida	Raj Ponnaluri	Approved
TEO-21-06		Study of Operational and Safety Impacts of Disabled and Abandoned Vehicles on FDOT Roadways	Jeff Frost/Eric Gordin	Approved