



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Automated MFL System for Corrosion Detection
University	FIU
Principal Investigator	Azizinamini, Atorod
PI Contact Information	aazizina@fiu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	ABC-UTC Funds: \$30,000 Match Funds: \$15,000
Total Project Cost	Total Funds: \$45,000
Agency ID or Contract Number	Accelerated Bridge Construction University Transportation Center (ABC-UTC) 69A3551747121
Start and End Dates	2020/01/01- Active
Brief Description of Research Project	The proposed project is aimed at using the methodology that is developed under other projects and supported by other agencies and automates the process for accelerated field application. The scope of the work and budget is kept at minimum budget since the majority of the related work and research have been completed under other projects. The main objective of this limited project is to automate the technology that is developed to inspect the health of steel elements within concrete bridges.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	<ul style="list-style-type: none"> • Florida DOT Districts 1 and 6 have strongly recommended supporting additional research by FDOT to expand the technology for rapid inspection of external tendons. • Florida DOT, following June 2020 closure of the Roosevelt Bridge in Stuart, FL, contacted ABC-UTC to use this output; used in project. • Florida DOT, following October 2020 failure in Bay Bridge (US-41) in Sarasota, FL, contacted ABC-UTC to use this output; used in project.
Impacts/Benefits of Implementation (actual, not anticipated)	This is an active research project. Upon completion, impacts/benefits will be reported.

Web Links

- Reports
- Project website

<https://abc-utc.fiu.edu/research-projects/fiu-research-projects/automated-mfl-system-for-corrosion-detection/>