

UTC Project Information	
Project Title	Durability Assessment of Externally Bonded Fiber-Reinforced Polymer (FRP) Composite Repairs in Bridge
University	University of Delaware
Principal Investigator	PI: Jovan Tatar,
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Funding Source(s) and Amounts Provided (by each agency or organization)	UDEL Fed: \$67,857 UDEL Match: \$67,966
Total Project Cost	\$135,823
Agency ID or Contract Number	69A3551847103
Start and End Dates	Start 2/1/20 End 7/31/2021
Brief Description of Research Project	The proposed project seeks to assess the long-term performance and effectiveness of fiber-reinforced polymer (FRP) composites in facilitating rapid structural renewal of deteriorated concrete bridges in the Federal Region 3. Although FRP composites have been extensively used to strengthen and repair deteriorating bridges across the country [1] – data warranting their long-term performance is lacking. The need for research on the durability of FRP composites for infrastructure was highlighted in a recent congressional hearing* and a National Institute of Standards and Technology (NIST) report [2]. The state of Delaware has the first (1994) externally bonded FRP repair installed on a publicly owned bridge in its inventory, offering a unique opportunity to study the durability characteristics of these materials over a timespan of over 25 years and contribute to a prominent national research need
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"> ■ Reports ■ Project Website 	