



UTC Project Information	
Project Title	Exploring the potential of 3D mobile printer in producing high-early strength concrete for concrete bridge repair.
University	University of Washington
Principal Investigator	Fred Aguayo, PhD
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Funding Source(s) and Amounts Provided (by each agency or organization)	IBT-ABC-UTC funds : \$ 41,250 Match funds : \$41,250
Total Project Cost	\$ 82,500
Agency ID or Contract Number	69A3552348322
Start and End Dates	January 1, 2025 - Active
Brief Description of Research Project	This project focuses on the innovative application of 3D concrete printing (3DCP) to produce a rapid, high-early strength concrete for concrete bridge repair. Specifically, this project explores the use of 3D mobile concrete printing (3DMCP) technology which can potentially offer unique advantages, such as flexibility in deployment, ability to print directly on-site for infrastructure repairs, and substantially decrease exposure of crew workers to the active traveling public on bridge construction projects. While most traditional 3DCP systems are typically stationary gantry-type printers, 3DMCP technology has been less explored.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The outcomes will be tracked and reported once they are identified.
Impacts/Benefits of Implementation (actual, not anticipated)	The impacts will be tracked and reported once they are identified.

Web Links

- Reports
- Project website

<https://abc-utc.fiu.edu/exploring-the-potential-of-a-3d-mobile-printer-in-producing-high-early-strength-concrete-for-concrete-bridge-repair/>