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| **UTC Project Information – Project 2.5** |
| Project Title | Development and Testing of High / Ultra-High Early Strength Concrete for durable Bridge Components and Connections |
| University | University of Connecticut (UConn), Storrs, CT |
| Principal Investigator | Kay Wille, Ph.D. |
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| Co-PI(s) | Co-PI: Ramesh Malla, Ph.D |
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| Funding Source(s) and Amounts Provided (by each agency or organization) | Fast-Act (Federal-U.S. DOT): $150,846 (estimate) for 3 years;UConn (1:1 match): $150,846 (estimate) for 3 years |
| Total Project Cost | $301,692 (estimate) (Federal plus 1:1 Match) for 3 years |
| Agency ID or Contract Number | ORCID.org ID Number: [0000-0001-7398-3456](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Forcid.org%2F0000-0001-7398-3456&data=02%7C01%7Ckay.wille%40uconn.edu%7C04dff881890c4e98fe3408d68a16a419%7C17f1a87e2a254eaab9df9d439034b080%7C0%7C0%7C636848227183705129&sdata=PFWsmv29NbrBqBuTeyHN1vfJbHCuyZWiLrsjXZALV6k%3D&reserved=0) |
| Start and End Dates | October 01, 2018 - September 30, 2021 |
| Brief Description of Research Project | The main goal of this project is the development of non-proprietary concrete mixtures with high and ultra-high mechanical and durability performance. In collaboration with ConnDOT and concrete material suppliers from the New England area, mix design solutions will be sought tailored towards workability, mechanical and durability performance as well as cost. Regular meetings will ConnDOT and industry partners will ensure that their constraints, interests and ideas will be considered.  |
| Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here | The current research effort aims at material development to satisfy the performance requirements. It is envisioned that upon success the mixture designs and knowledge how to operate with ultra-high performance concrete will be shared with local concrete suppliers so that their personal can be trained in providing this type of concrete for construction projects. This project aims at directly impacting the construction industry towards a more sustainable infrastructure with enhanced service life. |
| Impacts/Benefits of Implementation (actual, not anticipated) | The research project is in the initial phase and is ongoing. The benefits will be determined towards the end of the research project. |
| Web Links* Reports
* Project website
 | N/A at this stage. |