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| **UTC Project Information** | |
| Project Title | MPC-491 – Self-Centering Buckling Restrained Braces for Curved Bridges |
| University | University of Utah |
| Principal Investigator | Chris P. Pantelides |
| PI Contact Information | Professor  Phone: (801) 585-3991  Email: c.panthelides@utah.edu |
| Funding Agencies | USDOT, Research and Innovation Technology Administration |
| Agency ID or Contract Number | DTRT13-G-UTC38 |
| Project Cost | $225,000 |
| Start and End Dates | September 30, 2013 to September 30, 2018 |
| Project Duration | September 30, 2013 to September 30, 2018 |
| Brief Description of Research Project | The objectives of this project are to: (1) use numerical simulation to analyze effective configurations for using self-centering BRBs in the retrofit of existing curved bridges for moderate to high seismic regions; (2) develop an analytical model which simplifies the design of curved bridges when self-centering BRBs are implemented for control of longitudinal and lateral seismic forces in new bridges. In addition, the repairability of the bridge columns will be investigated experimentally using a retrofit method developed for ABC connections. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here | Several DOTs are considering implementation of this research including Alaska, California and Utah. |
| Impacts/Benefits of Implementation  (actual, not anticipated) | The seismic retrofit rechniques described in this research can be implemented quickly thus reducing recovery time and improving resilience of communities. |
| Web Links   * Reports * Project Website | https://www.ugpti.org/resources/reports/details.php?id=905 |