

<b>UTC Project Information</b>	
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.pantelides@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)	Several DOTs are considering implementation of this research including Alaska, California and Utah.
Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	The seismic retrofit techniques described in this research can be implemented quickly thus reducing recovery time and improving resilience of communities.
Web Links <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul>	<a href="https://www.ugpti.org/resources/reports/details.php?id=905">https://www.ugpti.org/resources/reports/details.php?id=905</a>