

**Project Title:**

Assessing and Visualizing Engineering Curricula

**Project Summary** (150 words maximum)

*This project is the 2<sup>nd</sup> stage of a TLEF-supported investigation into the hypothesis that curriculum design informed by foundational concepts of teaching and learning scholarship results in measurably higher levels of student learning. The pilot-scale curriculum assessment process developed and applied to a sub-set of both the Civil (CIVL) and the Electrical and Computer Engineering (ECE) undergraduate programs during the previous TLEF period (i.e., Jan.-March 2011) will be tested, improved, and then used to test the hypothesis. Results of the test will be analyzed and reported to the SoTL and engineering education communities. A robust curriculum visualization tool will be developed and used to engage the CIVL and ECE learning communities in curricular improvements. All the activities proposed for this project augment and enhance significant investments in curriculum redevelopment being made in the Electrical, Computer, and Civil Engineering undergraduate programs.*