

## **Improving Capabilities for Implementation of an Undergraduate Nuclear Engineering Minor at Wilberforce and Central State Universities**

### **Executive Summary**

Wilberforce University (WU), the first Historically Black College or University (HBCU) established in the United States (in 1856) and Central State University (CSU), actually a spin-off from Wilberforce University (in 1947), began Undergraduate Minor in Nuclear Engineering (MINE) programs in 2005 with help from The Ohio State University. In these programs, four nuclear engineering courses are taught by Ohio State University Nuclear Engineering Program faculty using a combination of fully synchronous Distance Learning Rooms (DLRs) and on-site teaching in the DLR at Wilberforce University. Central State University students come to the Wilberforce campus for these classes.

The objective of this proposal is to improve the infrastructure at WU for continuing these two MINEs at the respective schools by training WU faculty to teach the core nuclear engineering courses, by installing the capability to add teaching of laboratory exercises from a distance using DLR technology, and by mentoring WU faculty as they teach the core courses for the first time.