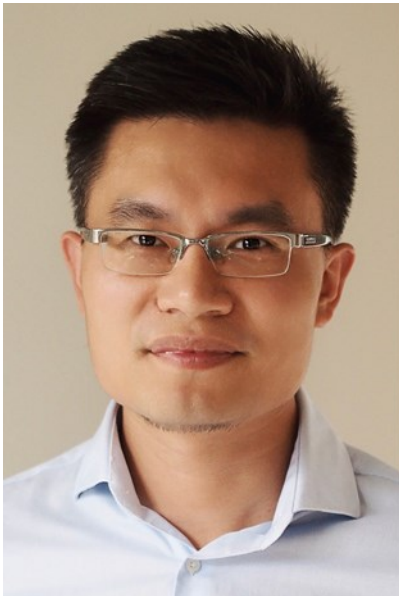


**CEE 595F – Geotechnical Seminar – ONLINE**

Friday, October 8, 2021 | 11:00am Central Time on Zoom

**State-of-the-practice in  
Geotechnical Instrumentation and Monitoring  
of Urban Underground Constructions****Zhangwei Ning, Ph.D., A.M.ASCE**Technical Manager,  
*Sixense North America*

**Speaker Bio:** Dr. Zhangwei Ning is the technical manager with Sixense Group, Northern America, specialized in geotechnical instrumentation and monitoring with both conventional and state-of-the-art techniques. He has participated in a wide range of projects including tunneling, deep excavation, bridge, dam, landfill, landslide, etc. Dr. Ning currently serves in ASCE G-I Underground Engineering and Construction Committee, and the Embankments Dams and Slopes Committee. Dr. Ning has been actively collaborating with universities in research and developing curriculum on geotechnical instrumentation and monitoring. He is also a guest lecturer at the University of Washington and Oregon State University.

**Abstract:** In this presentation, the design and implementation of geotechnical instrumentation and monitoring systems on recent urban tunneling and deep excavation projects in North America will be introduced. Emphasis will be given to the complementary features of conventional geotechnical instruments and modern remote sensing technologies. The opportunities and barriers of using monitoring data for geotechnical research will also be discussed.