

The applicant, James Flynn, is a Research Associate Professor in the Earth & Atmospheric Science department at the University of Houston, a Tier 1 Public Research University as designated in 2011 and again in 2016 by The Carnegie Foundation for the Advancement of Teaching. UH is the third largest university in Texas and offers graduate programs in a variety of programs including physical sciences, engineering, and technology, and maintains accreditation through ABET as well as SACS (Southern Association of Colleges and Schools Commission on Colleges).

The proposed research will be contained within the University's Technology Bridge campus in Houston, TX. Dr. Flynn frequently conducts experiments and maintains laboratory space at the Technology Bridge and coordinates all activities closely with the Technology Bridge's Facilities Manager.

Across the University, UH receives approximately \$110M annually in external funding for extensive research activities which are administered through the Division of Research (<https://www.uh.edu/research/>). For over 20 years, Dr. Flynn's research has collected detailed measurements of atmospheric physical and chemical properties using a variety of fixed and mobile ground based measurements, aircraft, and boats. These measurements have helped inform air quality policy decisions through the application of sound science.

To further this research and support students in the UH Cullen College of Engineering, Dr. Flynn will be deploying a 915 MHz wind profile radar (WPR) (Radiometrics XBS-BL) at the UH Technology Bridge to complement the existing atmospheric research measurements and NASA remote sensing systems which will be collocated at the Technology Bridge. Dr. Flynn's team assisted the State of Texas in the maintenance and data transmission for their WPR operations for several years as well as having received factory training on the use of the UH XBS-BL system. Additionally, UH will operate the WPR in close collaboration with the DOE lead WPR instrument mentor who has extensive experience in WPR operation and utilizes this exact make and model at some of their field sites.