

# Virginia's Region 2000 Wireless Research Lab

The Wireless Research Lab, located on the campus of Liberty University in Lynchburg, Va., is a unique asset because of its contribution to local economic growth and support to the wireless industry cluster. The lab offers research, development, pre-compliance and certification testing, as well as access to world class expertise through multiple affiliations.

## **Benefits:**

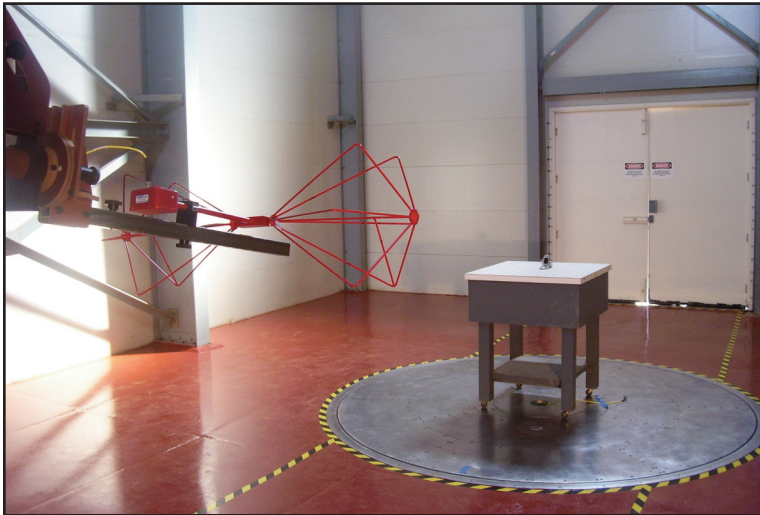
The non-metallic building provides an indoor facility that is invisible to electro-magnetic emissions. This allows for testing to be conducted 365 days a year, 24 hours a day, regardless of weather.

The facility includes high speed internet access, a three-meter and 30-meter antenna, 50 Hz and 60 Hz power supplies, and a large indoor bay. These features allow for a broad range of equipment to be tested, as well as access to remote testing, viewing, and conferencing.

Because of its location in Virginia's Region 2000, the lab offers a diversity of geographic test settings which include mountains, plains, valleys, small towns, and rural areas.



*The lab consists of a 30 x 34-foot non-metallic building invisible to electro-magnetic emissions.*



*The floor is a ground plane with a three-meter turntable in the center that is flush with the floor.*

## **Specific Testing Capabilities:**

- Radiated Emissions
- Receiver conducted emissions
- Transmitter radiated emissions
- Transmitted conducted emissions
- AC/DC line conducted emissions
- Antenna pattern measurements
- Custom R&D RF/EMC testing
- EMC problem mitigation

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*The basement area is used to house the controls for the turntable, as well as state of the art test and measurement equipment. It also serves as office space for research staff.*