

GEORGIA TECH RESEARCH INSTITUTE – Smyrna, Georgia

NORTH WING HVAC UPGRADE & BATTERY LAB

SCOPE Renovate the existing HVAC systems of the North Wing of Building #3 and incorporate a new Battery Lab into the design.



AIR HANDLING UNIT

Owner
Georgia Tech Research Institute

Mechanical Contractor
CAE Diversified Services

Prime Consultant
Johnson, Spellman & Associates

Construction Cost
\$700,000

SPECIAL CIRCUMSTANCES

- New variable air volume 22,000 CFM roof mounted, custom air handling unit with pre-heat coil, cooling coil, steam humidifier, and variable speed relief and supply air fans.
- Terminal units with hot water reheat capacity.
- Hydrogen and carbon monoxide monitoring of the Battery Lab.
- Differential pressure requirements between laboratory and supporting spaces.
- Acid resistant waste and vent, natural gas, compressed air serving fixtures in Battery Lab. Compressed air regulated to two (2) different pressures.
- Type III water system supplying fixtures in Battery Lab and a Type I point of use water system.
- Strict environmental requirements (temperature, humidity and noise ranges) for various laboratory spaces.

