



## UNC CHARLOTTE EPIC BUILDING

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The Energy Production Infrastructure Center (EPIC) building provides 200,000 square feet of classroom and laboratory space to accommodate growth in energy infrastructure research and promote collaboration with industry partners on the Charlotte Research Institute (CRI) campus at UNC Charlotte. The EPIC building enhances site preservation and stormwater management while obtaining a LEED Gold certification.

The stormwater management system proposes treatment and detention facilities that minimize impacts to existing forested areas. Runoff flows from the roof and paved surfaces through sand filters underneath a required fire access drive or into adjacent rain gardens. After treatment, a rainwater harvesting cistern provides irrigation for the entire building perimeter and courtyards, with overflow passing into an underground detention system to maintain pre-development flow rates. These facilities not only create outdoor social spaces and a sustainable footprint, but they also are designed to provide educational and research opportunities via monitoring stations at various locations throughout the system.

**LOCATION**  
Charlotte, NC

**CLIENT**  
University of North Carolina at Charlotte

**MARKET**  
Campus