

Electronic Sensors and Controls



Networking



BUILDING AUTOMATION TECHNOLOGY



Air Conditioning, Heating, and Refrigeration Systems



A New Technician Training Program for Advanced Building Technologies

Goals:

Add 4 new courses to basic 1st year AHR courses for BAT AAS degree

Build an immersive state-of-the-art lab

Recruit promising students looking for new opportunities (particularly women and URM) and current industry workers looking to upgrade skills.

Disseminate ATE center-aligned curriculum to NC community colleges

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First year activities:

Develop 4 courses:

BAT 212 Logic and Programming

BAT 221 BAS Control System Networking

BAT 231 BAS Control System Integration

BAT 251 Building Automation Controls

Purchase and install first portion of lab equipment

Industry Support: Trane, Schneider Electric, Siemens, Brady, CMS Control, Engineered Controlled Solutions