



Calhoun Community College

Continuous Commissioning® Services

About the Facility:

Calhoun Community College's Huntsville / Cummings Research Park campus is the only two year college campus in the nation located in a major research park. This \$34M construction / renovation project was recently completed providing increased access and a more collegiate environment for students. Sain Engineering Associates (SEA) was contracted to develop the energy strategy and supplement that strategy with a master plan to provide a long-term vision for making sound energy decisions to reduce energy consumption, minimize operating expenditures and extend equipment life.

SEA developed the energy strategy by conducting site surveys, interviewing staff and coordinating the master plan by analyzing the age and condition of existing equipment. SEA also provided assistance in making recommendations for energy program staffing and financing plans.

Recommended Solutions

The documented utility savings resulted from optimizing HVAC equipment accordingly:

- Optimized hot water supply temperature to reduce boiler demand while maintaining heating needs
- Corrected air handling units operating inefficiently
- Monitored zone reheat valves for overcooled areas, verified flow rates and design
- Modified terminal box flow rates to reduce unoccupied cooling/heating
- Investigated leaking or open heating valves on air handling units/terminal boxes
- Examined chilled water valves for leakage
- Programmed roof top units to reset the supply air temperature
- Adjusted building pressure set point on roof top units to prevent excessive exhaust fan operation
- Adjusted economizer set points on roof top units to better utilize cool, low humidity outside air
- Tested outside air and return air damper operation on air handling units
- Built dashboard to easily monitor air handling unit operation, terminal box reheats, chilled and hot water temperatures

SEA has helped reduce utility costs
by 27% for a total cost savings
of \$114,793 over 14 months



Construction /
Renovation Cost



Square Feet



Completion Date

