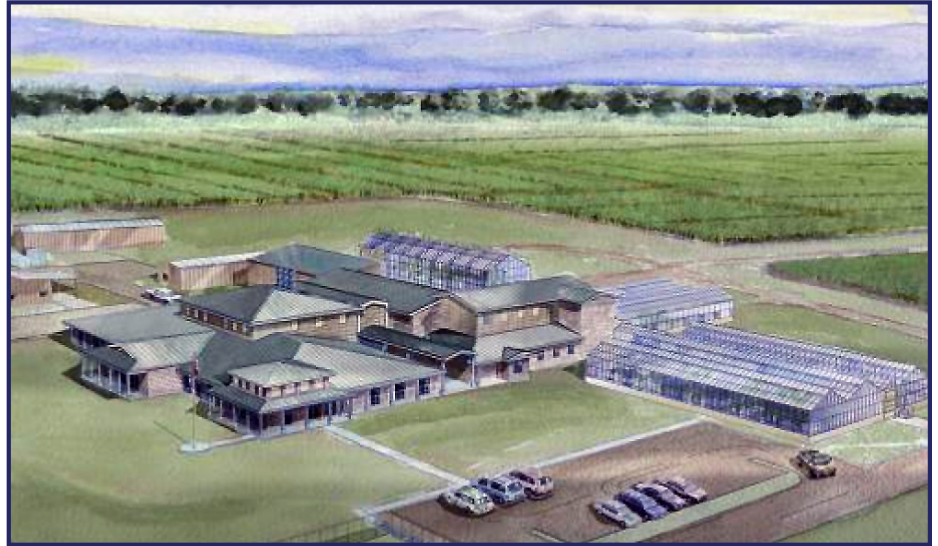


■ ENGINEERING ■ ARCHITECTURE ■ DESIGN-BUILD ■ GEOSPATIAL SOLUTIONS ■ SURVEYING

Merrick & Company has provided the programming, planning, and design of a new 66,747 gsf, \$17 million Sugarcane Research Laboratory facility including greenhouses for the USDA ARS Sugarcane Research Unit (SRU). The complex includes the Laboratory/Administrative building, Headhouse & Storage buildings, Photoperiod building, and three greenhouses.

The new facility is designed to meet the SRU's current and projected needs while remaining flexible enough to accommodate research program changes in ARS's mission and goals. The completed design provides a laboratory facility that is sensitive to the local environment and vernacular history while providing a state-of-the-art research facility.

The physical layout of the facility is a direct representation of the sequential research processes that are performed on a regular basis, and were defined during the programming interviews and laboratory planning. Physically, the new facility incorporates the historic precedence of southern vernacular architecture. By incorporating low-sloping roofs with large overhangs, exterior porches, and breezeways, the design promotes shading for natural cooling of the exterior.



Facility Features Include:

- Containment Facilities
- Fume Hood Lab – Isolated space for fume hood use
- BSC Lab – Isolated space for biosafety cabinet use
- Equipment Room
- Fumigation Chamber
- Growth Chamber
- Hazardous Waste Storage
- Cylinder Storage
- Cold Storage
- Dry Storage
- Microscopy

A-E Services Provided:

- Design for New Research Laboratory Facilities and Greenhouses

Other Services Provided:

- Program of Requirements Development
- Programming
- Sustainability Designs
- Planning
- Cost Estimating
- Specifications and Calculations
- Engineering Reports
- Space Planning
- Detailed A-E Design
- Physical Security Assessment and Design

