

Educational



Innovative Engineering Inc (IEI) has in-depth experience designing a diversified range of educational facilities including projects for colleges, universities and K-12 schools. We understand the challenges faced by many communities, local school boards and universities for the need to provide new space for the increasing school enrollments, and the ability to design and finance renovations to incorporate new technology for computers, the Internet and other advanced teaching applications. Examples of our educational project experience are presented below.

University of Georgia, Student Learning Center, Athens, GA

Structural design for the light gauge metal for this Student Learning Center (SLC) Library. The SLC features 26 general classrooms varying in size from 24 to 280 seats (a total of 2,200 seats) and 4 state-of-the-art Advanced Learning Labs dedicated to instruction in electronic research sources, information literacy skills, software applications, and faculty development and the library has 96 group study rooms.



University of Georgia, Veterinarian Medicine Bldg. 11, Athens, GA

Renovation and expansion of this 3, 400 SF, one-story with a structural steel roof on load bearing concrete masonry walls.

University of Georgia, Transgenic Animal Science Complex, Athens, GA. One story 3,000 SF structural steel roof on load bearing concrete masonry walls.



Piedmont College, Multiple Projects, Demorest, GA

- Three story 12,100 SF wood frame structure was a new Senior Dormitory and is arranged as apartments with two bedrooms, bath and kitchenette. All the rooms have high-speed, internet connection and cable access.
- New building of approximately 40,000 square feet lends itself to a three story structure of approximately 12,000 square feet on each of two floors with the first floor at 16,000 square feet, housing the new auditorium. This facility is designed of steel frame with a penthouse on top.
- Post fire structural investigation of Patten Hall, a two story 20,700 SF structural steel and load bearing concrete masonry classroom and office building.
- Martens Botanical Center, a single story 4,600 SF wood frame education and research laboratory.

Georgia State University, Chemical Vapor Deposition Laboratory, Natural Science Building, Atlanta, GA.

Structural engineering for support of roof top laboratory exhaust fans and stacks, wall penetrations and support of exhaust ductwork from the interior of a lower floor out and up the outside of an existing multi-story science and research building.

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Life University, Multiple Projects, Marietta, GA.

Structural design of a 700 SF covered entrance canopy with stone veneer; and a 2900 SF event lodge including a wood frame structure extending over water.

University of South Carolina, Aiken, SC

Design of foundations, stair and elevator towers for this 117,300 SF, four-story student housing complex.

Savannah College of Art, Student Housing, Savannah, GA.

Structural engineering and design of a four-story load bearing concrete masonry block CMU and hollow core slab structure.

St. Francis School, Classroom & Gymnasium, Alpharetta, GA

This two-story, 60,000 SF classroom building is the first building of the 30-acre private school development, which includes classrooms, performing arts facility, cafeteria, gymnasium, ball fields, and a septic field waste water system. Additional projects at St. Francis include:

- Single story 9300 SF library building with exposed heavy timber roof trusses and steel barrel vault entrance canopy
- Single story 9,700 SF auditorium building with bow string roof trusses, and
- Single story 5700 SF cafeteria building with exposed heavy timber roof trusses and steel barrel vault entrance canopy.



Benteen Elementary School Renovation, Atlanta, GA

Renovation and 26,500 SF addition to this elementary school. Structural design includes the steel framed and load bearing masonry wall.

Montessori School, Colony, TX

Structural design of load bearing walls, light gauge metal framing for this 30,000 square foot school

The Capitol Education Center, State of Georgia, Atlanta, GA

Structural design of the light gauge metal for the facility which has three rooms for meetings, training workshops and special events. The auditorium is located on the second floor and spans 4,720-SF. with seating capacity for 292 persons. The curved stage is approximately 36' wide x 11' deep, at the front center.



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