

College of Sciences and Engineering

Civil and Environmental Engineering

Engineers that change the face and surface of the Earth



Southern University and A&M College



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Areas of Civil Engineering

Transportation Engineering
Road/Highways-Rail-Air-Ports & Waterways—
Mass Transit

Structural Engineering
Bridges-Buildings-Towers

Environmental Engineering
Water (treatment, quality and distribution)-
Wastewater (collection, treatment)-Land
Fills-Air Quality

Water Resources
Dams-Spillways-Levees-Flood Control-
Reservoirs-Aquifers

Geotechnical Engineering
Foundations-Embankments-Soil Classification
and assessment-Soil Strength/Quality

Construction Engineering
Scheduling-Estimating-Budget-Project
Management

Urban Planning
Land Use-Development-GIS

Graduate Program
The Master of Engineering Program provides students with opportunities to engage in advanced education and research in environmental engineering, materials sciences and engineering management.



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Why Civil Engineering

Civil Engineering is the oldest and broadest of engineering disciplines. The role of civil engineers began as military engineers. So why become a civil engineer? Because it provides you with the opportunity for a rewarding and satisfying career. Civil engineers protect and save the lives of the public and private clients in virtually every action.

Civil Engineers

- Design safe bridges, buildings and roadways
- Design systems that treat and purify our drinking water
- Design systems that remove, treat and store sanitary, solid (trash) and hazardous waste
- Design dams, spillways, levees and drainage systems that protect our property from flooding

So consider civil engineering if you are interested in a career that lets you see the fruits of your labor while serving public and private clients with creative systems that protect our health, property and quality of life.



Why Southern University

The Southern University College is one of the most prestigious engineering programs in the nation and one of the top producers of minority engineering graduates. The College is housed in a multi-million dollar facility with multi-media classrooms and state-of-the-art environmental, water resources, geotechnical, structures and transportation teaching and research laboratories.

Program Educational Objectives

The mission of the Civil & Environmental Engineering Program at Southern University is to provide students with a high quality education in at least four of the major disciplines of civil engineering, enabling them to practice globally and engage in advanced study, while making significant contributions to society.



Within a few years after graduation graduates of the Civil & Environmental Program will have:

- (1) Utilized methods of analysis, including experimental, mathematical, and computational skills to improve lives and livelihoods through a successful career in civil engineering or other related fields
- (2) Become ethical and effective innovators, collaborators, leaders, and practitioners in efforts to address technical, business, and social challenges
- (3) Developed the skills pertinent to design civil engineering systems, to think creatively, and to communicate effectively, in a minimum of four of the civil engineering areas including environmental, structures, transportation, and water



Scholarship Opportunities

The civil engineering department offers a variety of engineering scholarships allowing students to focus on academics without the worry of financial obligations.

Two types of scholarships are available to civil engineering majors: (1) high school graduates who have identified engineering as a field of study and who have the potential to excel in an engineering curriculum, and (2) students currently enrolled in the civil engineering program who have maintained a cumulative 3.0 GPA.

Special Programs

The Department houses

The National Summer Transportation Institute funded by the Federal Highway Administration

The Dwight D. Eisenhower Transportation Fellowship Program funded by the Federal Highway Administration.

