

# F L O R I D A T C H



**civil  
engineering**

**CIVIL ENGINEERING.** Civil Engineers have the responsibility to provide the basic, environmentally sound, infrastructure for humanity. Through skills attained in mathematics, engineering mechanics (study of forces), materials, environment and management, civil engineers design and build your dreams.

### Civil Engineers

Work with the widest variety of problems and have the widest spectrum of jobs.

- Plan, design, analyze, and construct structurally safe, aesthetically pleasing, and environmentally sound bridges, retaining walls, coastal structures, buildings, airports, dams, roads and highways, intersection traffic signals, rail lines, underground tunnels, launch pads to launch the shuttle, ports and harbors, water treatment facilities to provide for drinking water

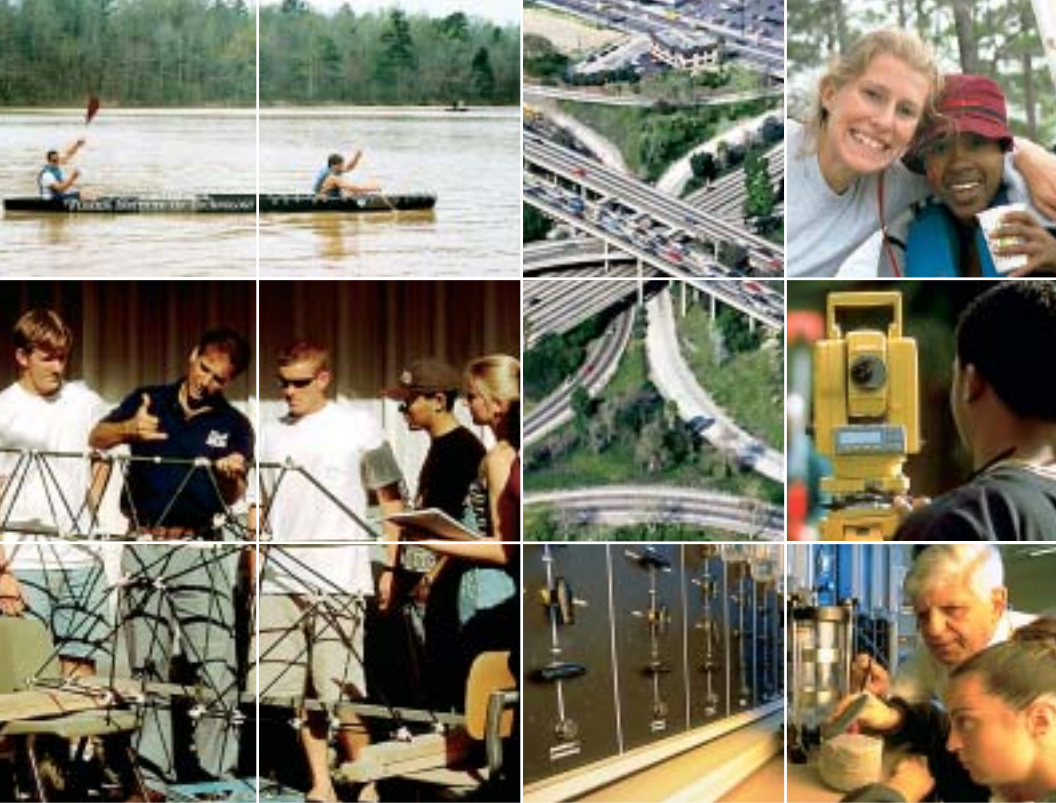
needs, waste-water treatment facilities and landfills to manage industrial and municipal waste and stormwater systems to provide a flood-free environment

- Conduct traffic engineering/ planning studies, environmental site evaluations, groundwater remediation studies, construction management and inspection, land development, surveying, flood plain mapping, erosion and scour analysis, risk assessment and management and much more...

*A recent study showed that civil engineers with 4 years experience are making approximately the same salary as electrical engineers and 17% more than mechanical and aerospace engineers. The salaries are even higher for those who are registered Professional Engineers.*

### Research at Florida Tech

The average external funding for the departmental faculty is in excess of \$100,000 per faculty member per year. Currently research is taking place in the following areas:



### *Environmental/Water Resources*

- solid and hazardous waste management
- water quality in lakes and reservoirs
- contaminant transport in subsurface media
- hydrologic modeling
- stormwater management

### *Geotechnical/Transportation*

- fiber-optic sensors for smart roads
- recycled materials (waste-to-energy ash, waste glass, recycled asphalt pavement and scrap tires)

### *Structural area*

- earthquake and wind engineering
- nonlinear dynamic analysis of structures
- passive control systems
- interaction between structural and nonstructural elements

### **Job Opportunities**

The following nationally recognized consulting or

construction companies have hired our graduates: Bechtel Telecommunications, Berryman & Henigar, Brown & Root, Camp Dresser & McKee, Dyer Riddle Mills & Precourt, Gee & Jenson, GeoSyntec Consultants, HDR Engineering, Kimley Horn, Master Builders, Post Buckley Schuh & Jernigan, Vanasse Hangen Brustlin.

### **Students seeking careers in ENVIRONMENTAL ENGINEERING may choose to study Civil**

**Engineering at Florida Tech.** *Civil engineers strive to improve the environment before and after pollutants have an effect. Their job is to enforce the protection of the environment through their expertise in waste disposal and clean-up issues, environmental assesment, modeling and prediction.*

Florida Tech offers over 50 degree programs in the following areas

Applied Mathematics  
Astronomy/Astrophysics  
Aviation/Flight  
Aviation Management  
Biology  
Business Administration  
Chemistry  
Communication  
Computer Sciences  
Engineering  
    Aerospace  
    Chemical  
    Civil  
    Computer  
    Electrical  
    Mechanical  
    Ocean  
Environmental Sciences  
Humanities  
Marine Sciences  
    Aquaculture  
    Ecology  
    Marine Biology  
    Oceanography  
Meteorology  
Physics  
Pre-med  
Psychology  
Science and Math Education  
Space Sciences

Florida Institute of Technology  
Office of Admission  
150 West University Boulevard  
Melbourne, FL 32901-6975  
(321) 674-8030

**If the opportunity to excel in a personal, dynamic environment excites you, and you want to avoid feeling like a number, be sure to visit Florida Tech!**

**Campus visits** may be scheduled Monday through Friday. Student-guided tours of the campus are given at 10 a.m. and 2 p.m. In addition, appointments may be scheduled for you to speak with an admission counselor, sit in on a class or meet with a professor in the academic discipline of your choice.

**Engineering Lab Tours** are given on Tuesday and Thursday at 11:30 a.m. and Biology Lab Tours are given at 3:15 p.m.

**Tours of our School of Aeronautics' flight line** are given at 1:00 p.m. daily, and weather permitting, include an actual flight!

**Make an appointment to visit today!**  
**(800) 888-4348**

**FLORIDA TECH**



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