

## Faculty of Engineering

Includes the School of Engineering and the School of Civil Construction.

### **SCHOOL OF ENGINEERING**

The main objectives of the School of Engineering are to prepare students to work as engineers in industry, public services, or as independent professionals to strengthen and develop student leadership; and to improve the level of knowledge in the engineering profession and the quality of engineering practice.

The academic programs offered by the School lead to a Licentiate degree (similar to a Bachelor's degree), a Professional Engineer degree, a Master of Engineering Sciences degree, and a Doctor of Engineering Sciences degree.

The School is organized in nine academic departments, and three Centers.

#### **ACADEMIC STAFF:**

The academic staff includes a total of 109 full-time and part-time professors, 96% of whom have formal graduate training.

#### **THE MAIN FIELDS OF RESEARCH ARE:**

##### **Construction Engineering and Project Management**

Highway and road construction  
Construction management  
Housing and building technology

##### **Structural and Geotechnical Engineering**

Structural design  
Theory and computer analysis of structures  
Structural dynamics  
Seismic engineering  
Geotechnical engineering

##### **Hydraulic and Environmental Engineering**

Fluid mechanics and applied hydraulics  
Hydrology and water resources  
Environmental engineering

##### **Transportation Engineering**

Economy and transport management  
Planning and transport systems design  
Load transportation and logistics  
Transport and externalities

##### **Industrial and Systems Engineering**

Operations research and algorithm development  
Economics and Finance  
Company organization and management

##### **Mechanical and Metallurgical Engineering**

Mechanical manufacturing processes  
Thermal systems  
Design and automation

##### **Chemical Engineering and Bioprocesses**

Chemical processes and technology  
Bioprocesses and industrial microbiology  
Food technology and engineering