



STE



The Water Science and Engineering (STE) specialization is a Master's-level program that trains generalist engineers to take a multidisciplinary approach in the water and environmental sectors, two major issues for the XXI<sup>st</sup> century.

**KEYWORDS**

- WASTEWATER TREATMENT
- WATERSHED MANAGEMENT
- FLOOD RISK PREVENTION
- PRODUCTION AND DISTRIBUTION OF DRINKING WATER
- AQUATIC ENVIRONMENT PROTECTION
- WATER QUALITY

**ALL OF POLYTECH'S PROGRAMS LEVERAGE A SOLID PARTNERSHIP NETWORK WITH:**

- The industrial world (800 internships, 200 industry projects, and 50 apprenticeship contracts per year)
- Academic research (14 associated research laboratories)
- International partners (over 100 partner universities around the world)

**INTERNATIONAL EXPERIENCE**

- 80% of the students spend more than two months abroad.
- In addition to a trip abroad at the end of their studies, engineering students also participate in internships and inter-university exchanges in Europe, the United States, Australia, Africa, and Asia.

**TARGET PROFESSIONS**

**When STE engineering students graduate:**

- they possess solid scientific and technical knowledge in all disciplines related to the water field.
- they are prepared to take on a management role in drinking water operations and production, distribution system design, treatment plant design, rainwater purification, environmental impact studies, and diagnosis of the health status of natural environments.
- they are able to design, lead, and manage all types of projects related to water for public services, respecting economic and legal constraints.

**Graduates are qualified for many jobs:**

- Design and Consulting Engineer
- Project Manager
- Water Mission Manager
- Treatment, operation
- Research and development

**TARGET ACTIVITY SECTORS**

- Large industrial groups (Veolia, Suez...).
- Engineering firms specialized in distribution networks and water catchment, treatment units, and environmental studies.
- Large conurbations and communities.
- Public organizations and water utilities.
- Public-and private-sector research centers.

## MAIN PROGRAM TOPICS

- mathematics
- computer science
- chemical engineering / chemistry
- hydraulics / hydrology
- microbiology / ecology / hydrobiology
- human and social sciences
- modern languages

A complete list of courses offered at POLYTECH, and total hours, is available on [www.polytech-montpellier.fr](http://www.polytech-montpellier.fr)

## PROJECTS AND INTERNSHIPS

Engineering students participate in several internships with companies or research laboratories:

- 1 month internship at the end of the 3<sup>rd</sup> year
- 3-4 months internship at the end of the 4<sup>th</sup> year
- 5-6 months internship at the end of the 5<sup>th</sup> year

5<sup>th</sup> year students perform an industry project at the end of their studies (300 hours), which places them in a professional context and helps establish their independence.

## "STE" GRADUATES

Régis Dumay, Operational Director, Egis Eau (STE 1995)

Philippe Guitard, General Director Eastern Europe & Russia, Veolia Voda (STE 1984)

Gabriel Toffani, Business Unit Director, Degrémont in South America (STE 1990)

## ADMISSION REQUIREMENTS

### 3<sup>rd</sup> year

- For students in preparatory classes at higher education establishments: recruitment via Polytech and G2E competition.
- For holders of L2, L3, DUT, BTS, or equivalent foreign diploma: competition via written application and interview.
- For PeiP2 students (Polytech engineering schools program): after curriculum validation and national ranking.

### 4<sup>th</sup> year

For holders of an M1 degree or equivalent foreign degree: competition via written application and interview.

### Vocational contracts

Students accepted to initial education may complete their 5<sup>th</sup> year with a vocational contract.

### Continued education

The Water Science and Engineering program is also available as continued education under some conditions, for employees who can demonstrate at least three years of professional experience related to this specialization.

[www.polytech-admission.org](http://www.polytech-admission.org)

### STE ALSO OFFERS...

- *Field trips, including a week of river ecological assessment.*
- *A citizenship day for river cleaning.*
- *A 3-days water seminar, open to professional attendees.*
- *Experimental areas.*
- *Involvement of HSM, IEM, and MARBEC research laboratories, recognized by the CNRS.*
- *Participation in professional trade shows such as Pollutec, HydroGaïa...*
- *Training supported by the local professional association, Swelia, and the "Pôle Eau" (Water) worldwide competitiveness cluster.*

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## TO FIND OUT MORE +

More information regarding the number of ECTS, course descriptions, research partnerships, and international opportunities on: [www.polytech-montpellier.fr](http://www.polytech-montpellier.fr).



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