



## APPLICATION REQUIREMENTS AND DEADLINES

Applicants must hold or expect to hold an undergraduate degree in Economics, Mathematics, Civil Engineering and/ or Transportation Studies prior to the beginning of the program. In order to submit an application, applicants must also supply the following:

- Copies of degrees and transcripts of all previous higher education
- 2 academic references, at least 1 from your current institution
- Personal statement & CV or resume
- A minimum IELTS score of 6.5 or a TOEFL iBT score of 90 (please consult our website for information about exemptions)
- GRE scores are not required but will be considered if provided.

No paper copies are needed for the admission process. Applications are reviewed in rounds, 3 times a year. Applying early improves your chances.

The application deadlines for the Fall 2018 intake are:

> **January 7, 2018**

> **March 18, 2018**

> **May 6, 2018**

Decisions will be released 4 to 6 weeks after each application deadline.

For more information, visit our website [portail.polytechnique.edu/graduatedegree](http://portail.polytechnique.edu/graduatedegree)

or contact our admissions team at [gdadmissions@polytechnique.fr](mailto:gdadmissions@polytechnique.fr)

## FEES AND FINANCING

Application fee: 80 €

Tuition fees: 12,000 € per year

For information concerning financing and scholarships please consult our website:  
<https://portail.polytechnique.edu/graduatedegree/smartcities>

# SMART CITIES AND URBAN POLICY

Building and Connecting  
Tomorrow's Megacities



## ABOUT THE GRADUATE DEGREE



Ecole Polytechnique's full-time graduate degree programs are industry oriented and combine state-of-the-art multidisciplinary education and in-depth scientific knowledge. These two-year programs, taught entirely in English, are designed for highly-qualified undergraduates with a strong quantitative background in Science, Engineering and Economics depending on the programme.

140 ECTS credits are achieved during the degree program, which results in an internationally recognized academic qualification.

### Industry collaboration for real-world education

Now more than ever, employers favor graduates who can bring real-world experience and perspectives to their organization from day one. Our programs will help you:

- develop a broad understanding of your future professional industry,
- build your professional network,
- enhance your practical and soft skills,
- significantly increase your marketability to potential employers.

Academic courses are developed and delivered by world-class faculty from Ecole Polytechnique, associated Research Centers, national and international academic partners as well as by top-level industry professionals.

The Graduate degree programs also include company visits and conferences held by leading figures in business. Individual and team projects and the internships can be undertaken in collaboration with one of our many industrial partners, in France or abroad.

### High-level research combined with innovation management know-how

In order to prepare you to take on leadership positions in technology-driven organizations, we think that you first need to understand the frontiers of technology and know-how to build bridges between research and the corporate world. You will learn to combine fundamental research, technology application and development, and innovation management.

Ecole Polytechnique's Research Center includes 22 world-class scientific departments in 8 major fields addressing today's most pressing social and technological challenges through interdisciplinary and cross-functional projects. Most of them are joint research units with the world-renowned French National Center for Scientific Research (CNRS). As part of your course, you will have the opportunity to work on cutting-edge research guided by some of the most distinguished faculty in the world.

### Innovation, Management and Entrepreneurship

In addition to our laboratories, you will also have access to our Entrepreneur and Innovation center, a unique startup environment comprising an incubator, an accelerator, a prototyping area and diverse co-working spaces. This center allows us to offer our Graduate Degree students a curriculum that integrates science and engineering with leadership, innovation, entrepreneurship and core management concepts.

### Career Services

Ecole Polytechnique provides careers advice and support throughout the program, ranging from helping you define your professional goals to making competitive job applications and excelling at interviews! Workshops on writing CVs, information sessions on job search strategy, networking events, and an annual job fair are among the many services that we offer.



## ABOUT ECOLE POLYTECHNIQUE

Ecole Polytechnique upholds a tradition of excellence in multidisciplinary education covering applied sciences, humanities, languages and sports. It is a world renowned science and technology university, at which students benefit from a 5:1 student-teacher ratio. Our students receive tailored advice from faculty members for their personal development, career plans and future prospects.

Our campus is part of the Université Paris-Saclay scientific and economic cluster, where global business heavyweights who contend with disruption meet the research driving technological innovation. This combination results in a unique approach to professional training, accounting for Ecole Polytechnique's ranking among the world's 10 most attractive schools for employers, according to the QS Graduate Employability Rankings 2017.

## SMART CITIES AND URBAN POLICY

BUILDING AND CONNECTING TOMORROW'S MEGACITIES



In an increasingly global economy, metropolitan areas are basic components of economic competition and growth. Capital, labor pools, knowledge, infrastructures and their distribution within and across geographical space play a major role in the economic development and prosperity of metropolitan areas.

They tend to be the main generators of economic prosperity and a breeding ground for innovative tech companies. Through tactical urbanism plans and development strategies, perpetually booming metropolitan areas are seeking to become smart and sustainable places. They are looking for efficient ways to optimize their full potential and successfully transition into «cities of the future». The Smart Cities and Urban Policy Graduate Degree provides an in-depth understanding of new and transforming metropolitan areas and their competitive environments.

Following the Ecole Polytechnique's tradition of excellence in the applied sciences, Smart Cities and Urban Policy Graduate Degree is designed for students with a strong mathematical background and an interest in economics. The program involves applying advanced quantitative methods to the study of new and transforming metropolitan areas and their challenges.

For those who wish to obtain a rigorous, in-depth knowledge of economics challenges and are looking to use their technical skills in strategy and leadership oriented roles, this degree will provide the know-how to navigate the trends shaping the 21st metropolitan economies.

Teaching is resolutely professional-oriented, relying on a combination of methodological teachings and real-world case studies to uncover the hidden trends guiding the evolution of metropolitan areas. Courses include high-level scientific master classes taught by faculty from Ecole Polytechnique and our partner schools École des Ponts ParisTech and ENSAE.

The Smart Cities and Urban Policy program provides an in-depth understanding of new and transforming metropolitan areas and their competitive environments. Over the course of two years, the building up of students' toolbox is put to use through up to nine months of industrial internships.

### Program Structure

The Smart Cities and Urban Policy program emphasizes hands-on, experimental learning by inviting you into with the worlds of research and industry, notably through four to six-month internships.

#### September Y

- URBAN ECONOMICS AND REAL ESTATE
- ENVIRONMENTAL ECONOMICS AND POLICIES IN CITIES
- TRANSPORT AND TRAFFIC
- ENVIRONMENT AND LOCAL DEVELOPMENT ECONOMICS
- PUBLIC POLICY IN REAL ESTATE
- CORPORATE FINANCE FOR THE ENTREPRENEUR
- CORPORATE SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

INTERNSHIP (4 MONTHS)

#### September Y + 1

- URBAN POLICY
- TRANSPORTATION ECONOMICS
- INTERNATIONAL TRADE AND FIRM LOCATION
- GEOGRAPHICAL INFORMATION SYSTEM
- ECONOMETRICS, BIG DATA
- SUPPLY CHAINS

INTERNSHIP (6 MONTHS)

JOB MARKER WORKSHOPS | MEETINGS WITH ALUMNI | NETWORKING EVENTS | CAREER FAIRS | CONFERENCES | ETC.

### Industry Partners

The professional orientation of the program is strengthened by the strong and mutual links with industrial and institutional partners from various and relevant fields: real estate, finance, energy, international organizations and ministries.

Find out more about the faculty, course syllabus, career outcomes and financial aid here:

<https://portail.polytechnique.edu/graduatedegree/smartcities>