



Transport and Sustainable Development

KEY-WORDS

Transport / Sustainable Development / Mobility / Environment / Modelisation / Transport Systems / Outlook / Energy

GOALS

L'École Polytechnique, l'École Nationale Supérieure des Mines de Paris et l'École Nationale des Ponts et Chaussées have joined within this Master to provide the tools necessary to the inscription of the whole stakes of transport in a sustainable development dynamics. ParisTech created an international formation of excellence aimed to deal with concrete problems which public or private agent are faced to, in developed as in developing countries.

PRE-REQUISITES

The Master's Degree is aimed at students who already have a thorough basic education in engineering or economics (Bachelor of science, Bachelor of engineering, 210 ECTS) whom level in mathematics is equivalent to that of a scientific licence

LANGUAGE

The candidates must be able to understand, read, write and express themselves in French. (minimum level at the International French test : 450 pts).

CALENDAR

- 2 six-month periods of course (From October 2004 to June 2005)
- 5 months internship

LOCALISATION

The courses will take place in the buildings of the ENPC. Some will be able to take place in those of the EP or ENSMP.

COMPETENCIES AND PROFESSIONAL OUTLETS

While the "sustainable development units" set up by many companies nowadays are an obvious opening for graduates of the Master's Degree course, the biggest and most promising opportunities are expected to lie in the "added value" that the qualification will bring to the graduates' initial training (in engineering, management or economics) through their understanding of the challenges of sustainable development. Whether they are dealing with technological choices, innovation in financing techniques and risk-taking, choosing geographical locations, project management, liaising with government bodies and international organisations or taking a stand on matters of public interest, the Master's Degree graduates will have the benefit of an education that enables them to use all their basic expertise, backed up by a thorough understanding of the strategic challenges facing companies and government bodies. On that basis, job prospects are likely to be found with:

- Transport equipment companies (automobile, plane and ship manufacturers, and rail, maritime and air infrastructure)
- The leading operators of road, rail, sea and air networks
- Service providers: urban transport authorities, vehicle hire firms, shared taxis, transport companies and travel agencies
- International organisations: OECD, IEA, EU, UNEP...
- Consultancies offering specialised advice on national and regional development, town planning and transport infrastructure management
- National, regional and municipal government bodies

CONTEXT

Regional planning, segregation within urban space, problems of safety, of congestion, local air pollution, climate change, explosion of the request for mobility are as many challenges posed to the engineers of the XXIst century

CONTENTS

- Transport Stakes and Sustainable Development
- Analysis and Prevision of Transport Supply and Demand
- Transport, Energy and Environment
- Transport and Social, Economic and Political Regulation
- Management and communication
- Projects Transport et Développement Durable
- French (for not-French speaking students)
- Professional internship

SCHOOL LEADER: ENPC

Since its creation in 1747, the oldest engineering school in the world keeps to be a leader in the organisation and the contents of the offered courses. The close link between research and teaching constitute the central axis of the scientific and teaching project. With traditional core competencies in civil engineering, environment, transport, town and regional planning, mechanics, industrial management and logistics, ENPC now offers high-level programmes in an extensive range of fields, from applied mathematics to economics and management.

CONTACT

Le dossier de candidature peut être téléchargé sur le site du Master :
http://www.enpc.fr/fr/formations/masteres/tradd/tradd_admission.htm

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WEBSITE

www.paristech.org/tradd

COST OF THE FORMATION

13 000 euros (possibility of financing by a professional partner)