Master of Science in Data Engineering in English in Paris

Télécom ParisTech offers a 2-year Master’s Degree program in Data Engineering in English. The program covers all fields related to the exploitation, management, and analysis of large datasets, both structured and unstructured.

STRUCTURE OF THE PROGRAM:

■ First year:
  - Courses in Stochastic processes and scientific computing
    - A sample of courses: Complements in Hilbert spaces and probability, Differential equation and numerical methods, Martingales and asymptotic statistics
  - Courses in Data science
    - A sample of courses: Mining of large datasets, Logic and knowledge representation, Optimization for machine learning, advanced statistics

■ Second year:
  - Courses from Master’s Degree programs established with highly ranked Parisian universities, especially the world-ranked Université Paris-Saclay: Data & knowledge, Data sciences, Machine learning for information and content, Data scale
  - A research and innovation project for one semester focusing on topics recommended by Telecom ParisTech’s labs or industry partners
  - One-semester internship with a research lab or a company

Complementary courses in science and the humanities as well as language courses and personal and professional skills are taught throughout the program.¹

¹ In addition to the technical and scientific program, students complete humanities and social sciences courses including economics and management, societal transformation and the digital revolution, and communications. French-language classes are also taught throughout the entire program.
Language of teaching:
The program is entirely taught in English during the first year of studies. Some specialized optional courses may be taught in French during the second year of studies.

Academic qualification at the end of the studies:
“Diplôme d’ingénieur” – Master of Science in Engineering

Employment opportunities:
The program leads to employment in the fields of data science, engineering statistics, database administration, or research and R&D careers in machine learning, data management, data extraction, data mining, and statistics. It also opens the path to doctoral studies within purely academic environment as a PhD or in the framework of an industrial partnership.

Program start:
September 2017

For application and admission information:
The program welcomes Bachelor’s and Master’s Degree graduates in a relevant field. For more information, please contact:
Télécom ParisTech’s Direction of International Relations:
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