



Career Paths

This programs trains highly sought-after technical experts in **financial institutions, central banks, regulators, fintechs, consulting and international organizations:**

- **Finance:** Quantitative Analyst, Risk Manager, Investment Analyst, Portfolio Manager, Financial Engineer, Trading & Structured Products Analyst...
- **Macro-Finance:** Financial Stability Analyst, Macro-Finance Researcher, Prudential Regulation Specialist, Monetary Policy Analyst, Economic & Financial Policy Advisor, Compliance & Risk Manager...
- **Data Science:** Data Scientist, Machine Learning Engineer in Finance, Fintech Analyst, Risk Modeling Specialist, Big Data, Analyst, Risk Manager...

Practical information

Start date: September 2027

Application rounds

- October/November
- January/February
- March

Format

- 100 % in English
- Full-time: 1 year (September - April) + Internship (2-6 months)

Tuition fees

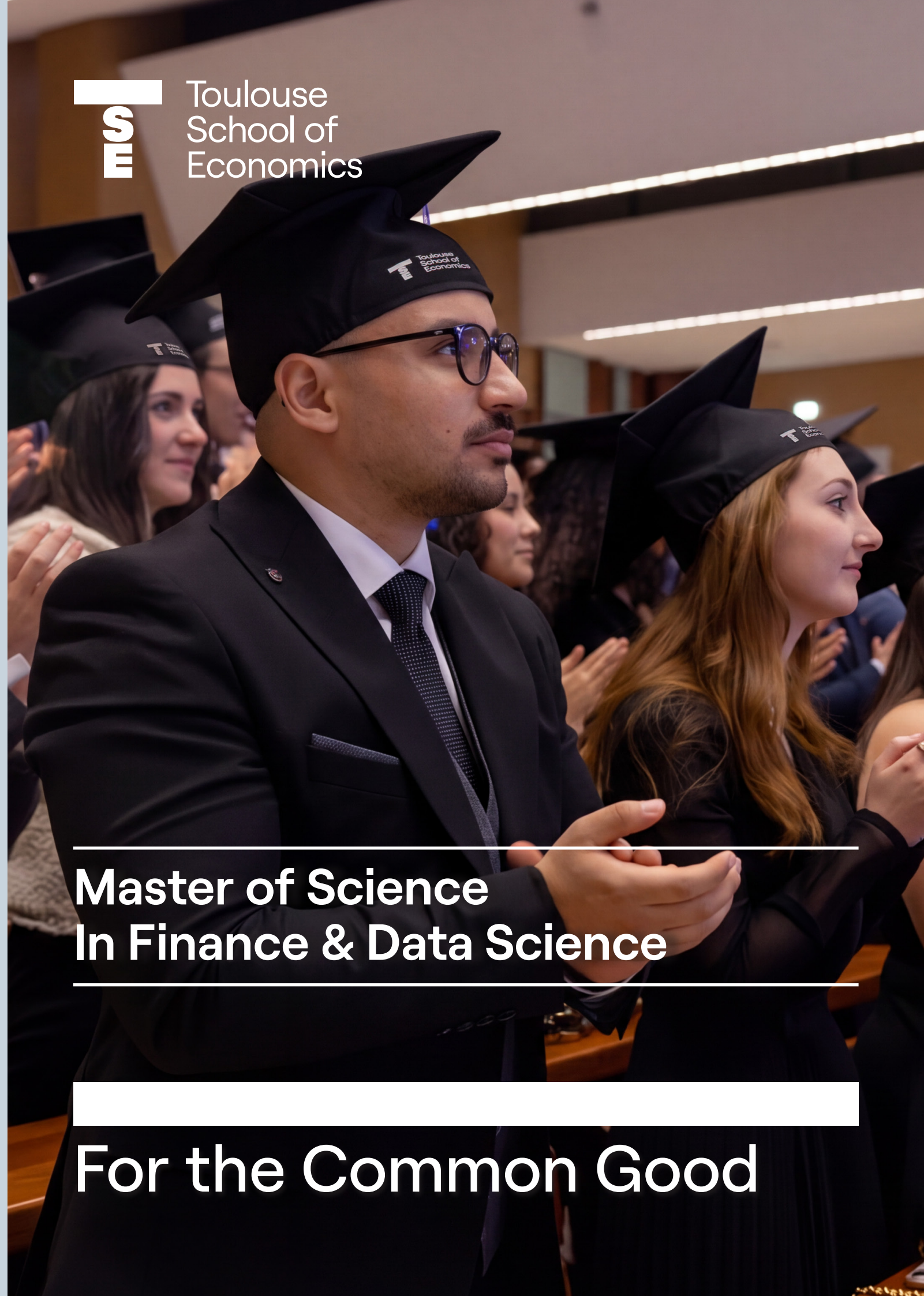
- Tuition: € 22 500
- Merit-based scholarships available

Target Profile

French M1 level or equivalent in Economics, Mathematics, Statistics, Engineering, Computer Science, or Physics...

Contact

More information about applications: admissions@tse-fr.eu



Master of Science In Finance & Data Science

For the Common Good



1 Esplanade de l'Université
31080 Toulouse Cedex 06
www.tse-fr.eu



15th
in the Shanghai
ranking

Top 10
Economics
Department

80
nationalities
on campus

44 %
international
students

89 %
of TSE Master's
graduates employed
within 6 months

Program directors:



Prof. Nour Meddahi



Prof. Silvia Rossetto

Master of Science In Finance & Data Science

Bridging Advanced Finance and Data Science

The financial industry increasingly demands professionals skilled in both finance and data science. TSE is uniquely positioned to deliver such a program, leveraging its renowned faculty and strong partnerships with central banks, regulators, and financial institutions to ensure graduates acquire both rigorous theory and practical, real-world experience.

The TSE MSc in Finance and Data Science bridges advanced finance and data science, preparing graduates for high-level roles in banking, asset management, fintech, consulting, central banks, and international institutions. It offers a rare combination of quantitative finance and machine learning, reinforced by strong industry links, CFA/FRM alignment, and hands-on projects.

Why choose this master's program?

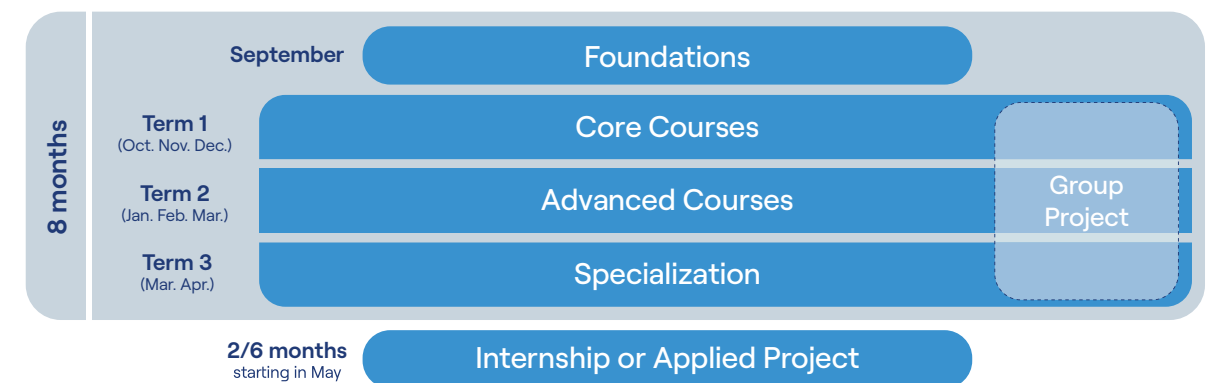
- A program combining finance and data science
- Unique Macro-Finance track in Europe
- Strong focus on AI and LLM applications to finance
- Alignment with CFA and FRM certifications
- Course by Jean Tirole, 2014 Nobel Prize Laureate
- Backed by renowned international faculty
- Strong research partnerships with financial institutions and central banks
- Practical company project: group work with partner companies
- Industry exposure: conferences and study trips to major financial centers.

Excellence in research and world-class faculty

- 150 faculty members
- 9 expert research teams, including 1 in Finance
- 7 thematic research centers, including one in Sustainable Finance
- 38 research partners across leading companies and institutions, including more than 12 in Finance.

+Program

A rigorous and
professionally
oriented program



Foundations (September)

Refresher in Statistics, Programming with AI and Microeconomics for Finance.

Core Courses (4 courses, 4 credits each)

Term 1 (October – December)

Asset Pricing, Mathematics for Finance, Quantitative Methods, Financial Data Analysis.

Advanced Courses (choose 4 out of 5, 4 credits each)

Term 2 (January – March)

Corporate Finance, Fixed Income & Derivatives, Macro-Finance, Empirical Asset Pricing, Machine Learning in Finance & Risk Management.

Specializations (choose 5 optional courses, 3 credits each)

Term 3 (March – April)

- **Finance:** AI in Finance, Behavioral Finance, Sustainable Finance, Corporate Restructuring, Trade & Exchange Economics, Financial Technologies.
- **Macro-Finance:** Advanced Macro-Finance, Economic Outlook Analysis, Financial Intermediation & Banking, International Finance, Monetary Policy & Prudential Regulation.
- **Data Science:** Advanced Machine Learning, Causal Inference, Extreme Risks, Forecasting, LLM & Text Analysis, Portfolio Risk Management, High-Frequency Data Statistics.

Practical Experience

- Group Project (7 months, September – April, 3 credits).
- Internship or Applied Project (2/6 months starting in May, 10 credits).

Career Support

- Study trip
- Business Networking Day
- Campus Talks
- Career coaching.