

Master Econometrics Statistics Aix-en-Provence and Marseille

Type: Master

Fields: Law, Economics, Management

Registration fees: 243 euros

Department: Faculty of Economics and Management

Credits: 120

Registration regimes: Initial training, Continuing education, Apprenticeship

Contacts

Head of the M1

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Target audience

This Master's addresses students who wish to further develop their knowledge of econometrics and quantitative economics with a view to the job market (Bac+5) or doctoral studies. The target audience are students who have completed a bachelor's degree in economics or similar, a bachelor's degree in applied mathematics or a bachelor's degree in social sciences with a quantitative orientation and economics courses.

Admission

First-year entry is recommended but it is possible to enter the second year (M2). All students must submit an application file which will be examined by the pedagogical commission of the Faculty of Economics and Management. Apply at the time of admission on the dedicated platform. For more details on the procedure to follow, please consult the faculty's website.

Knowledge to be acquired

Given the rapid evolution of needs in the job market, this degree will train professionals able to adapt to these changes. Such adaptability implies economic phenomena and requires extensive technical knowledge of economics. The first year of the degree will allow the student to acquire fundamental knowledge of theoretical economics and quantitative methods.

Internships and supervised projects

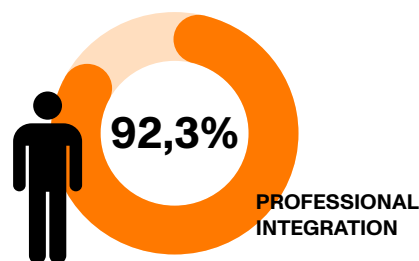
An end-of-study internship is compulsory in the Master 2 EDS track and optional for the Research pathway, lasting between 3 and 6 months. In the Master 2 EDS "apprenticeship" track students alternate between time at university and time in their firms.

Aims

The first year of the program aims to establish a strong foundation in economics, econometrics, statistics, and Data Science. It familiarizes students with essential theoretical and practical tools to analyze contemporary economic issues and make informed decisions in the realms of business and administration.

The second year offers two orientations: Track Econometrics and Data Science (EDS) or Track Research.

Graduates from the research track will have gained in-depth expertise in research and data analysis, while those from the professional track will possess practical skills to solve economic and statistical problems in a professional context. These two tracks thus offer diverse opportunities for students seeking a career focused on research or specialized professional positions.



Situation of working people in employment 6 months after graduation. This result comes from the professional integration survey conducted among the 2022 graduates of the Econometrics, Big Data and Statistics course, by the Aix-Marseille University Student Life Observatory.

Professional skills acquired by the end of the M2

Track Econometrics and Data Science - EDS

- Ability to manipulate, analyse and interpret data using state-of-the-art machine learning techniques and econometric methods, irrespective of their nature (e.g. quantitative, qualitative, or unstructured data such as text and images) or size.
- Competence in various programming languages (such as Python and R) and data science applications (such as dashboard visualisations), capacity to adapt quickly to any business environment.
- Ability to independently choose the most appropriate machine learning tools and implement them in order to obtain reliable and robust answers that create added value for the company, or to provide public or private administrations with analyses useful in their operations.
- Ability to communicate clearly, orally and in writing, the results of quantitative analyses to a variety of audiences such as non-specialist business managers or professional data scientists.

Track Research

- Ability to contribute to novel scientific output in econometrics.
- Ability to highlight the value of research results.
- Expertise in an area of research in econometrics and data analysis.

Structure, organisation, language of courses

The first year of Master (M1) consists of two semesters. The first semester is devoted to expanding methodological skills and fundamental economic knowledge. The second semester includes applied courses in the various fields of economics, advanced quantitative courses, and optional courses. The Master 1 classes can be taken in Marseille or Aix-en-Provence. Courses in Marseille are taught exclusively in English. In Aix-en-Provence, most courses are taught in French and in English. M2 tracks are taught exclusively in English. Both M2 tracks are located in Marseille. M2 track EDS is open to apprenticeship.

Career opportunities

As with all recognized educational institutions, the attractiveness of AMSE school is based primarily on the quality of its students' professional development. Our students find jobs in France and abroad.

Examples of jobs held by our graduates: Data Scientist, Data Analyst, Statistician, Data Manager, Business Analyst, Quantitative Analyst, Consultant.

Watch the alumni talks on YouTube:

<https://www.youtube.com/c/AMSEChannel/playlists>

Orientation assistance

At the end of the first semester in M1, an information meeting is organized to inform students of the possibilities for their M2 and/or to advise them individually if necessary. Every year, our alumni meet with students during the school's career day and present their AMSE experience and their career paths.

Further studies

Students, when enrolled in the research track, can apply to a PhD program and write a thesis, at AMSE or other universities.

Partnerships

Our teaching methods interact with the professional world, adding a professional and operational dimension to our courses. The partners with whom we currently collaborate (internships, advisory boards) and/or who contribute to the training are numerous. The Master's advisory board serves as a means to position the program within the local economic environment and beyond. It guides and validates our pedagogical choices and serves as a listening and informational resource for the socio-economic environment.

Studies abroad and double degrees opportunities

The Master's program welcomes international students (nearly 50%), some of whom receive Eiffel scholarships. The student can spend the M1 abroad following one of our double degree programs with the universities of Konstanz, Tübingen, Venice, Lisbon, or Kent. In this case the student spends the entire year abroad. Students work in an international environment, speaking and writing in English.

Teaching and research

The Master in Econometrics Statistics is part of the *École Universitaire de recherche* (EUR) AMSE, which includes almost almost a hundred researchers from Aix-Marseille Université (AMU), Centre National de la Recherche Scientifique (CNRS), École des Hautes Études en Sciences Sociales (EHESS), Centrale Méditerranée (ECM) and Sciences Po Aix. The teachers are selected according to their expertise within those institutions. The teaching staff is supplemented with practitioners.



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AMSE is a department of the Faculty of Economics and Management, Aix-Marseille University

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