

# STATISTICAL CONSULTING WORKSHOP

## MASTER 2 STATISTICS & ECONOMETRICS

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Master 2 Statistique & Econométrie - parcours  
Standard

Master 2 Data Science for Social Sciences -  
parcours International

### Does your company collect data that would benefit from statistical treatment?

You can have it processed by a small team of Masters-level students led by two specialist faculty members (from a statistics team), and monitor progress throughout the project.

As part of the **MASTER 2 STATISTICS & ECONOMETRICS** programme, the Statistical Consulting Workshop gives students the opportunity to work with project owners who are not statisticians, but encounter issues that call for a statistical processing in the course of their work. The Workshop offers teamwork, high-quality communication about statistics with professionals from other fields, the ability to identify the appropriate statistical processing technique(s) for a given problem, and the use of field-specific IT resources.

The **MASTER 2 STATISTICS & ECONOMETRICS** recruits students who have completed a Master 1 in applied mathematics or econometrics and have a solid grounding in mathematical statistics. Students in the programme are trained as quantitative researchers. The programme focuses on applied statistics and econometrics, with systematic use of statistical software.

#### **Recent projects include:**

- ▶ Predicting airplane production rhythms
- ▶ Classifying convective clouds
- ▶ Detecting atypical electronic chips, classifying silicon wafers
- ▶ Segmenting the tourism market
- ▶ Comparing statistical methods for molecule performance measurement
- ▶ Territorial data allocation methods for grid referencing

Find yourself facing a  
problem that might be a  
good fit for this  
approach and want to  
learn more?

Contact us so we can  
assess the feasibility of  
your project  
together.

#### **Contact:**

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### PRACTICAL INFORMATION

Projects  
run from  
October to March  
and the list is finalized  
before the end of  
the summer

#### → Schedule

- ▶ Late June / early September: topics selected by the teaching team.
- ▶ Late September: students are assigned to projects (generally 4 students per project). The owner presents the project to the students; in attendance of the group faculty supervisors. Several days after this meeting, the students present their working plan to the faculty supervisors.
- ▶ October to March: the project is completed. Biweekly update sent to the project owner and copied to the faculty supervisors. Students must be able to reach the project owner easily (e-mail, phone, etc.). At least one meeting to review the project's status is held in December.

#### → Project volume

- ▶ Each student spends approximately 75 hours on the project, starting in mid-October. On the basis of 1 hour per day, 5 days a week, for 15 weeks. The project is delivered in March.

#### → Terms of the Partnership

- ▶ In addition to this empirical project, the students are required to complete their usual coursework, pass their Masters exams, and work on other, more academic projects. They will have more availability in October and November than in December; this requires to be highly responsive whenever questions arise.

#### → Data

- ▶ Availability, quality: The students will need access to data to implement the statistical methods they recommend. Ideally, the data should be prepared in advance. Other considerations: is the data voluminous (files of over 100 MB)? Who will be able to provide the students with information on the data during the study?
- ▶ Confidentiality, ownership: Students work on university computers. This means that the data must be anonymised to a minimal extent. A confidentiality agreement can also be arranged if necessary.

#### → Agreement between the business and the university

- ▶ An agreement is signed to formalize the partnership and ensure that it is duly documented. Please contact: **Lorna Briot (careers@tse-fr.eu)** and provide the name of the person to contact to draw up the agreement.