# **\*MASTER COMPUTER SCIENCE INFORMATION TECHNOLOGY** FOR SMART AND SUSTAINABLE MOBILITY



## PROGRAM GOAL

### **KEY FEATURES**





## Open to

+ Education level at entrance |



## Courses are provided by |



#### Contact |











### MAIN COURSES

- Data engineering: agent-based modeling and simulation for sustainable and mobile application
- Environmental, social & economic impact of mobility solutions
- Human Computer Interaction for sustainable and mobile application
- Smart mobility: ethics and legal issues, transport engineering and spatial development
- · Machine learning
- · Network security
- · Traffic and transportation modeling
- · Internet of Things, services and applications
- · Edge and mobile computing for sustainability

The 2nd year of the Master includes an internship period carried out abroad, preferably in one of EUNICE alliance partner university.

#### AND AFTER? |

Graduates will have the skills to apply for positions in the computing domain, more specifically IT for service design and data management, decision-making supports, ethical and sustainable development of transport and logistics solutions.

#### Potential jobs:

• Software and data engineer, data analyst, design implementation and deployment of secure, ustainable and resilient services for smart mobility • System integrator of AI/ML and optimization techniques applied to the urban context • Mobility expert of sustainable smart solutions conciliating legal, social, ethical and business components

The graduates may apply for research programs.

#### **ADMISSION REQUIREMENTS**

For the first year - Master 1: open to students with Bachelor degree in computer science (after a licence / bachelor), or another engineering or technology specialty that fulfills the following requirements: design and programming skills in C or equivalent, and highly desirable in Java or equivalent object oriented language; At least B2 level or equivalent skills in English: ability to attend courses delivered in English; A good level in mathematics.

#### **Application procedure**

The application file must include diplomas obtained as well as all transcripts since high school graduation.

+ To apply: <u>European students</u>: Master 1 > monmaster.gouv.fr <u>Non European students</u>: pastel.diplomatie.gouv.fr/etudesenfrance

Tuition fees are approximately four thousand euros per year for most non european students (carrefully check your own situation!) :

uphf.fr/formation/candidatures-inscriptions/droits-dinscription



