2022-2023

AGRICULTURAL & FOOD DATA MANAGEMENT
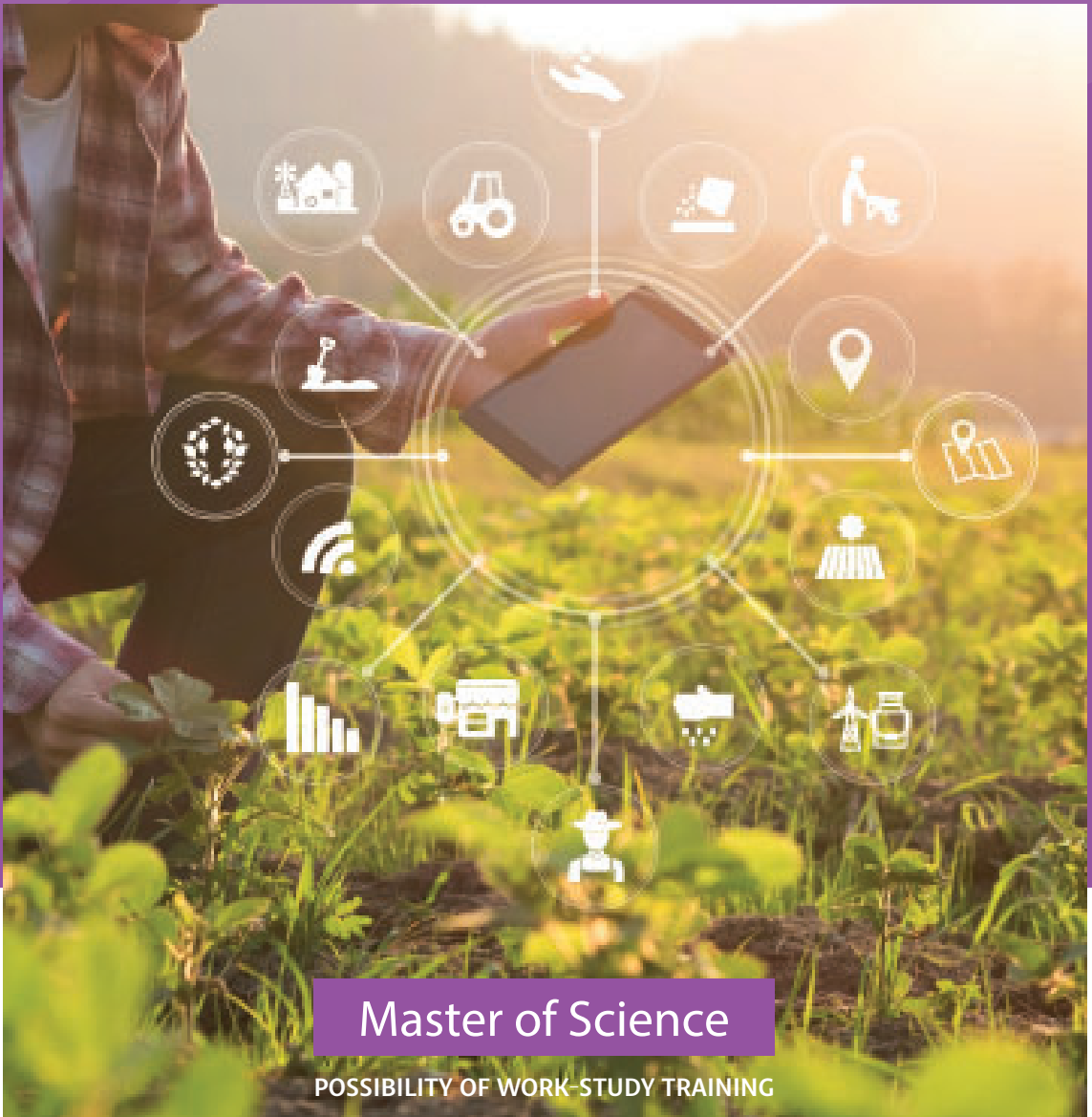
Master of Science

POSSIBILITY OF WORK-STUDY TRAINING

UniLaSalle
Rouen

Data are revolutionizing companies in terms of management, research & development, and marketing. Digital technologies are constantly evolving and bring out new approaches to agriculture, which require new skills. The objective of the Master of Science in Agricultural & food data management program is to train data scientists to meet the challenges of life sciences, agriculture, and food industry.

CONTEXT

The focus is on acquiring and applying IT and data mining techniques in the field of research and in companies and organizations involved in creating intelligence for agriculture.

The program offers solid, future oriented training, drawing on a multidisciplinary teaching approach. Its other strengths are the extensive experience of the program staff in monitoring internships, as well as the partnerships with many companies and educational and research institutions.

Our program enjoys the support of several academic and industry partners, including ACTA, Agro EDI Europe, NatUp, the Institute of Soil Science and Plant Cultivation (IUNG) in Pulawy (Poland), the Normandy Regional Chamber of Agriculture, Coop de France, Be API, ISAGRI, MiXscience (Avril Group), Proagrica, Sodiaal.

Salima TAIBI
Accreditation to Supervise Research (HDR), PhD
Professor in statistics
Deputy Head of the MSc Agricultural & food data management

Jérôme DANTAN
PhD, Eng.
Associate professor in computer science
Head of the MSc. Agricultural & food data management

KEY POINTS

01 Expertise in data management applied to life sciences and precision agriculture

02 International classes with 2/3rds of students coming from all other the world

03 - 6-month insertion rate of 100%

04 Possibility of work-study training (with a 12-month graduation)

05 UniLaSalle, a higher education centre of national and international reference in the earth, life, environmental, energy and digital sciences
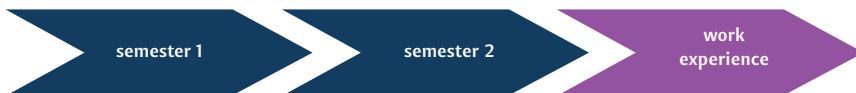
MSc Agricultural & food data management
COURSE STRUCTURE

The MSc in is taught in English and lasts 12 months.
It can also be proposed as a semester of study abroad

First academic period : from September 15th, 2022, to January 27th, 2023
Second academic period : from January 30th to April 7th, 2023

semester 1	semester 2	work experience

Agriculture, Food Science and Big data
An overview of AgTech and Food Science
Sociology and digital transformation

Connected ag. & food
Precision Agriculture
GIS Software, image processing

Marketing & business analytics
Data marketing
Business strategy & datavisualization

Big data, IoT and data property rights
Massive data processing and IoT
IT security & data property rights

IT Data management
Excel spreadsheets
Databases and SQL
Project management

Machine Learning Methods
Machine learning and deep learning
Modeling

Data Analysis applied to Food Science
Data Analysis
Data Mining

Data Project for Agriculture & Food Science
Practical project whose subject
is offered by either the teaching
staff or a partner company, e.g. building
a decision-making tool for smart
agriculture, developing of
innovative IT software

Software Engineering
Excel programming, VBA
Advanced programming in Python

Survey Methods
Unstructured Data,
Multiple Correspondence Analysis
Survey Consumers data Analysis,
text mining & Natural Language
Processing

Cross fields
Agorajob/Professional CV
French foreign language

Career

The program provides
students with skills for which
there is significant demand
in the following sectors:
agriculture, food industry,
e-commerce, consulting,
retail, e-communication, IT,
management, marketing
and digital marketing, R&D
and healthcare, with a 6-month
insertion rate of 100%
and salary prospects of over
€38,000 per annum:

- Data scientist
- Chief data officer
- Master data manager
- Epidemiologist
- Data designer
- Research leader in agronomy
- Manager of animal health
  observatories
  Data/business analyst

Skills

Expertise in data management,
IT, statistical, data mining,
machine learning, image
analysis techniques
applied to life sciences and
precision agriculture, project
management, business analysis,
marketing, sociology...

Work experience

- A four-month placement
  under an internship
  agreement or professional
  training contract in
  companies such as NatUp,
  SODIAAL, Promize (ISAGRI),
  and Evolution XY, Agrial
  Maïsadour
- data project for agriculture
  and food science :
  A four-week assignments set
  supervised by companies and
  professors

Credits

- 60 ECTS credits
- 40 ECTS credits for
  the academic period
- 20 ECTS credits
  for the internship
  and professional thesis

TESTIMONIALS

ESTELLE, *student MSc 2018-2019*

«I chose the MSc in Agricultural & Food Data Management to gain new skills and because this program covers the arrival of digital technologies and data processing in the agricultural sector. I've learned such a lot, including programming and statistics, and I particularly enjoy mixing with the international students. There was soon a great atmosphere and team spirit in our group. I'm an intern at Evolution, an animal genetics company based near Rennes. It is very rewarding and offers a different perspective on the skills developed in class. It has given me valuable practical experience!»

MICKAËL NABAT, *Head of Big Data Development PROAGRICA*

«Making effective use of agricultural data is vitally important if we are to meet the societal challenges of this century. It is a key part of the strategies developed by companies in the industry. People with skills in management, data science and agronomy are a crucial link in the chain as they can help management teams to lead these new projects and provide support to those in the field. These new profiles need solid training that encompasses all these criteria.»

CHOOSE FRANCE

Discover the french "way of life" and gastronomy. Learn French, the world's most commonly spoken language by 2050

TRY NORMANDY
Normandy: Top region to visit (Lonely Planet 2018). Experience the vibrant city of Rouen, a safe city on a human scale with 43,000 students and 5,000 international students

STUDENTS LIFE
• Social event organized by student and the International Department (Gala, Team building day, touristic stay)
• Several student organizations on the campus (International club)

HEALTH & WELL-BEING
• Benefit from the excellent and free French healthcare system
• On campus psychological support team
• Disability friendly campus and personalized support
• University hospital within 15'

ACCOMMODATION
• Secured residences
• University residences
• Private rental accommodations or with families

Admission
• General engineering degree
• Master's degree or equivalent
• Exceptionally, students with a Bachelor's degree or equivalent with professional experience
• Admission will be based on your application and an interview

Online application :

www.unilasalle.fr
www.international.unilasalle.fr
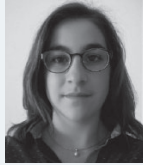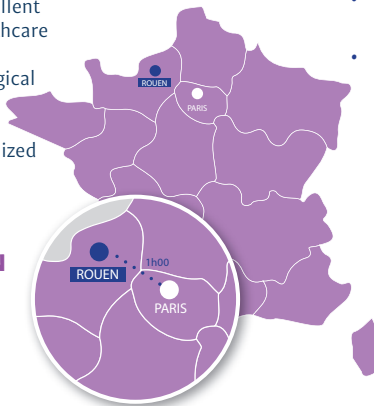
Start of term
September 15th 2022

Tuition and fees
12-mth conventional program: €8,700

12-mth Continuing education and alternation: €12,500

Living expenses 2021-2022
• Catering in canteen: €3.25/meal
• Insurance: €200/years
• Campus room: from €270 to €500 /month
• Average cost of living: €650/ month

ROUEN
PARIS

1h00
ROUEN
PARIS

OPEN DAYS

Set up a one on one online meeting !

UniLaSalle
Earth & Sciences

INTERNATIONAL
Anthony Voisine
Student Recruitment Officer
+ 33 (0)2 32 82 91 29
+33 (0)7 61 00 75 44
anthony.voisine@unilasalle.fr

FRANCE
Céline Jacquemoire
Admissions Officer
+ 33 (0)2 32 82 91 47
admissions.rouen@unilasalle.fr

www.unilasalle.fr

UniLaSalle - Rouen campus - 3 rue du Tronquet - CS 40118 - 76130 Mont-Saint-Aignan

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CHAMBRES D'AGRICULTURE

RÉGION
NORMANDIE