The Agrosciences, Environment and Health Institute

It offers general and vocational bachelor's, master's and doctoral degree courses and develops research through eight research units.

It is made up of six teaching and research centres (CER): Biology, Chemistry, Physics, Mathematics, Soil, Water and Environment and STAPS - Health, promoting collaboration and cross-disciplinarity between training areas and research activities.

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Place of training

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301 rue Baruch de Spinoza
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IMPLANTEUS.**UNIV-AVIGNON.FR**

PARTNERSHIP

INRAE regional center

15 research laboratories and their international partners
(to welcome internship students)

Technical centers and economic partners :

CTCPA
CTIFL
CRITT
Pôle Innov'Alliance
Givaudan
Chambre de commerce et d'industrie
Vaucluse Provence Attractivité
McCormick

LE RELAIS HANDICAP

Un accompagnement personnalisé pour la réussite de votre cursus.
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IMPLANTEUS
SUSTAINABLE MEDITERRANEAN AGRICULTURE FOR HEALTH | GRADUATE SCHOOL

FRANCE 2030

INRAE

AVIGNON UNIVERSITÉ

MASTER

IN AGRICULTURE, FOOD SCIENCES, ENVIRONMENT AND NUTRITION

(MAFEN)

The Agrosciences, Environment and Health Institute

Teaching center and research of chemistry

UNIV-AVIGNON.FR

Objectives of the training program

The research-oriented International Master program with two options Agronomy or Food & Health Sciences (MAFEN) is at the core of the Implanteus Graduate school (GS), which has been designed in partnership with the Regional INRAE Center to address the challenge of adapting mediterranean agricultural systems for fruit and vegetable production to the constraints of global change all while fostering high nutritional quality.

The MAFEN program includes a curriculum in English combining plant and environmental sciences, food chemistry, food processing, microbiology, human nutrition and consumer science.

Conditions for admission

Admission to M1 level

A bachelor's degree in chemistry or biology, transcripts from the bachelor's curriculum, a letter of motivation, documents attesting to the level in English.

Admission to M2 level

An M1 level or a complete master's degree (or equivalent degree) in chemistry or biology, transcripts from the bachelor's and master's curricula, a letter of motivation, documents attesting to the level in English.

Regarding the level in English, the admission jury may decide a case-by-case evaluation (face-to-face or by phone)

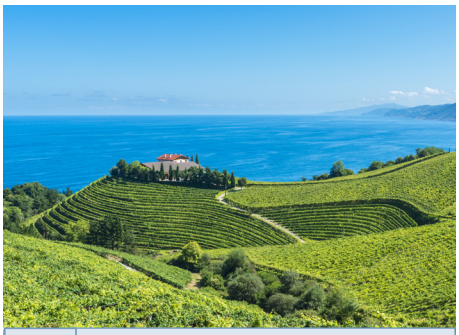
Application procedures

Depending on the country of residence, *Studies in France* procedure via the eponymous platform or to be completed online on :

monmaster.gouv.fr

For admission in M2 :

univ-avignon.fr / training / registrations / students from outside



PROCEDURE TRAINING

Training program master 1 & 2

Multidisciplinary teaching in English

Program with major/minor options in Agronomy and Food & health sciences

AXIS I

Plant production in the Mediterranean context

- Plant breeding, plant health
- Genetic & environmental factors
- Water & soil resources, sustainability

AXIS II

Preservation, extraction, transformation and formulation of vegetable matter

- Innovation & sustainability in food processing
- Turning wastes into added-value products

AXIS III

Plant food, health, consumer's behavior

- Contaminants, safety
- Nutritional benefits, micronutrients
- What determines consumption?

AXIS IV

Cross-disciplinary methods

- Statistics & data treatment
- Modeling, imaging, metabolomics
- Ethics, science–society debatex

Required competences and skills

- Fundamental training in the basics in chemistry, biochemistry and/or biology
- A strong motivation to learn outside your initial disciplinary field through the multidisciplinary teaching program proposed by the Graduate school
- A good level in English. Candidates must be able to attend classes and seminars delivered in scientific English (oral + visual support)

Academic scolarship

Scope academic excellence scholarship available:

- Mistral scolarship (Avignon University)
- Eiffel scolarship
- Implanteus scolarship (6 000€/year)

International

The MAFEN program has a strong international character as shown by:

- A systematic use of English in the teaching program
- Support for outgoing mobility. Master's students will benefit from a dynamic policy encouraging their outgoing mobility during their internships. This policy will heavily rely on the dense global network of international partners of the Implanteus Graduate school
- A strong involvement of international academic partners in the teaching program (through seminars and Summer schools) and in the hosting of Master's students for their research internships

Internships & tutored projects

- Completed two research internships either in the graduate school laboratories (including those of international partners) or in an R&D company with adequate financial support from Implanteus: grants for research internship 4 months in M1 and 6 months in M2 (~600€/month) + mobility aids (~800€/month depending on the destination country).
- Completed a project in collaboration with INRAE and Avignon University laboratories in M1 and with the private sector in M2. Working in groups, students are asked to respond to an upstream research and development problem posed by a research laboratory (M1) or a company (M2). Projects may deal with research, innovation and any topic at the science-society interface.

Pursuit of studies

Given the research orientation of the MAFEN curriculum and the two internships in research labs for a total of 10 months, Master's students are naturally encouraged to consider pursuing a Doctoral diploma, in particular in the laboratories associated with the Graduate School and that are part of the Agricultural sciences & Sciences Doctoral School (ED536).

Professional perspectives

Support for professional insertion will be provided to MAFEN students by:

❶ Promoting student projects in collaboration with the private sector.
❷ Involving the socio-economic partners in the following actions:

- Training (modules focused on R&D, tutored student projects)
- Hosting students for short periods in relation with their lab internships
- Organizing Job Fairs and workshops for job placement

Targeted jobs

The MAFEN program aims to train:

- Future researchers to promote the sustainable production, transformation and nutritional benefits of safe high-quality plant food.
- Future managers in innovation for the agrofood industry with an experience of research.