



L'institut Agro | Montpellier SupAgro

FRANCE

**RESEARCH INTERNSHIP
FOR INTERNATIONAL
INCOMING STUDENTS**

Academic year 2021/2022

RESEARCH INTERNSHIP

Institut Agro | Montpellier SupAgro research units

Period	Any time of the year	Hours	300 h (8 weeks)	ECTS (European Credits)	7
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Director of the program : Dr Dominique Louette - dominique.louette@supagro.fr - 0033 (0)4 99 61 26 35

Key words

Research projects, professional environment, study, professional and personal project, report

Skills to be acquired or developed

- Mobilize the knowledge and know-how acquired during the first years of higher education;
- Initiate a research project and organize the work, structure the approach;
- Become part of a research project, part of a research team, take on a mission;
- Respond to demand, meet objectives, produce results, including writing a scientific report;
- Take initiatives, develop observation skills and critical thinking skills;
- Develop adaptability.

General organization of the training

Students must personally take steps to find the internship. For that, they should consult the list of the 22 Joint Research Unit (UMR), at the end of this document and/or consult the UMR websites <https://en.montpellier-supagro.fr/research/scientific-policy/research-units> (English)

- Students should then send a message to the contact persons of the UMRs of interest (list of contact persons available at the end of the document), and indicate the period they are interested in and the topics they would like to work on. They must send them a CV and a cover letter. The objectives of this letter are to explain their educational background, their professional project and their motivation to work in the selected lab. They must convince the contact person that they have all the skills and motivation to join their team.
- They should copy the director of the program (Dominique Louette) who will be able to help the student if he/she do not receive any response.
- The application may be accepted if the project is compatible with the work in progress and the availability of the targeted research teams.
- Internship can begin at any time of the year. For incoming students in the spring semester, internships usually start in May until end of June.

All internships are subject to a contractual commitment between Montpellier SupAgro (General Director), the host organization (Director and internship supervisor of the host organization), the student and his tutor professor. The latter ensures the tutoring of the internship as well as the correction of the internship report.

Pedagogical objectives

General objective:

Integrate a professional sector by performing a mission of bachelor/master level, in a research laboratory

Specific objectives:

- Become part of a research group, by participating in activities conducted by the group;
- Develop knowledge of how a research organization is organized and operates within a different legal and cultural framework;
- Demonstrate and develop its capacity to adapt and integrate a research team
- Produce results and learn to write scientific reports;
- Put engineering tools into practice: carry out a study, initiate the research process
- Define its professional and personal project

Assessment methods

1/ Internship written report, assessed by the pedagogical tutor teacher.

The instructions for writing the internship report are defined by the tutor professor, depending on the type of internship and on the research project.

2/Internship supervisor's assessment

PROCEDURES

International students can apply for a **research internship in one of the 20 Montpellier SupAgro Joint Research Unit (UMR)**.

- Students must personally take steps to find the internship. For that, they should consult the list of the UMR, at the end of this document and/or consult the UMR websites : <https://en.montpellier-supagro.fr/research/scientific-policy/research-units> (English)
<https://www.montpellier-supagro.fr/recherche/dispositifs-de-recherche> (French)
- Students should send a message to the contact persons of the UMRs of interest, and indicate the period they are interested in and the topics they would like to work on.
- The application may be accepted if the project is compatible with the work in progress and the availability of the targeted research teams.

Internship can begin **at any time of the year**.

Internship may last **from 2 to 6 months**. Internships of more than two months are remunerated but more difficult to obtain.

Proficiency is required in French or in English. In some cases, other languages can be accepted.

Montpellier SupAgro Joint Research Units (=Unités Mixtes de Recherche UMR) Contacts for Students Internships

MPRS Department - Soils, Water, Crops and Livestock Systems Department

UMR Eco&Sols – Functional Ecology & Biogeochemistry of Soils

The aim of Eco&Sols is to use ecological engineering to propose scientifically-based practices to maintain and improve the agricultural and environmental functions of agro-ecosystems. The research undertaken by Eco&Sols seeks to describe and understand the ecological processes of primary production and the regulation of the carbon and nutrient fluxes in the agro-systems.

Information: <http://www.umr-ecosols.fr/en/>

Members: INRAE, CIRAD, IRD, L'institut Agro

Contact: claire.marsden@supagro.fr

UMR LISAH - Laboratory for the Study of Interactions between Soil, Agro-Systems and Water Systems

LISAH focuses its work on hydrology, the transfer of contaminants and erosion of highly developed and cultivated soils. It also studies the spatial properties of these areas, and their evolution. These studies aim at analyzing the issues of water and soils in cultivated areas.

Information: <https://www.umr-lisah.fr/?q=en>

Members: INRAE, IRD, L'institut Agro

Contact: Julien.fouche@supagro.fr

UMR LSTM – Tropical and Mediterranean Symbioses Laboratory

LSTM studies microbiology and biology of plants, based on a multidisciplinary and integrative approach. It aims at understanding the molecular mechanism influencing the establishing of symbioses, as well as their role in ecosystematic services. It also studies the biodiversity of symbiotic microorganisms.

Information: <https://umr-lstm.cirad.fr/>

Members: UM, CIRAD, IRD, INRAE, L'institut Agro

Contact: brigitte.brunel@supagro.fr

Internship offers: <http://umr-lstm.cirad.fr/offres-d-emploi-et-propositions-de-stages>

UMR SELMET – Livestock Systems in Mediterranean and Tropical Regions

SELMET works on animal production agro-ecosystems in warm climates, in normal and harsh conditions. The extreme conditions under which some of these systems function challenge the limits of ecological intensification.

Information: <http://umr-selmet.cirad.fr/en>

Members: INRAE, CIRAD, L'institut Agro

Contact: nathalie.agbagla@supagro.fr - charles-henri.moulin@supagro.inrae.fr

UMR ABSys - Biodiversified Agrosystems

ABSys supports the agroecological transition by producing knowledge and methods for the assessment and design of tree crop-based cropping systems, including agroforestry systems, in a wide range of Mediterranean and tropical environments.

Information: <https://www.cirad.fr/en/our-research/research-units/absys>

Members: CIRAD, INRAE, Ciheam-IAM, L'institut Agro

Contact: aurelie.metay@supagro.fr

BE Department – Biology and Ecology

AGAP Institute – Genetic Improvement & Adaptation of Mediterranean and Tropical Plants

AGAP Institute produces, collates and shares knowledge, methods and technologies on genetics, physiology and evolution of cultivated plants, as well as innovative and collective management strategies. Our objectives are to create a diversity of crop varieties and to promote plants adapted to the multiple challenges of Mediterranean and tropical agriculture, through interactions with our partners and various stakeholders. About 20 tropical and Mediterranean crops are studied, covering a very wide range of biological characteristics and uses. Considering the diversity of plants and their multiple uses as an opportunity to enrich our researches and activities, we aim to impact the development of more efficient agroecosystems, through multidisciplinary approaches. This includes training and capacity building.

Information: <http://umr-agap.cirad.fr/en>

Members: CIRAD, INRAE, UM, L'institut Agro

Contact: dominique.this@supagro.fr – nathalie.pivot@cirad.fr -- laurent.torregrosa@supagro.fr

Internship offers: <https://www.cirad.fr/en/jobs/internships> or <https://jobs.inrae.fr/en/news/complete-internship>

UMR PHIM – Plant Health Institute Montpellier

PHIM studies the interactions between the plant and its biotic environment that have an impact on plant health, growth and productivity.

Several of our researchers are located in Kenya, Ivory Coast, French Guyana and Costa Rica. We also have research platforms in Burkina-Faso, Cambodia and China.

Information: <https://umr-phim.cirad.fr/>

Members: INRAE, CIRAD, IRD, L'institut Agro

Contact: claire.neema@supagro.fr - gerben-martijn.ten_hoopen@cirad.fr, - gilles.bena@ird.fr

UMR BPMP – Biochemistry and Molecular Physiology of Plants

B&PMP is defined as an Integrative Biology research department, focused on the mechanisms of plant responses and adaptation to variable abiotic environmental conditions.

Information: <https://www1.montpellier.inra.fr/wp-inra/bpmp/en/>

Members: INRAE, CNRS, UM, L'institut Agro

Contact: pierre.berthomieu@supagro.fr - anna.medici@supagro.fr

Internship offers: <https://www1.montpellier.inra.fr/wp-inra/bpmp/en/>

UMR CBGP - Centre for Biology and Management of Populations

CBGP carries out research in the fields of systematics, genetics and ecology of natural populations and communities of animals (mainly arthropods and small mammals), for the purposes of agriculture, public health and biodiversity. It aims to characterize the diversity of these organisms, and to understand and predict their evolution in a context of global changes. CBGP leads academic researches while making so that the results of some research programs can drive to the elaboration of scenarios or decision-making tools dedicated to the management of pest and diseases or the conservation of endangered species.

Information: <https://www.cirad.fr/nos-recherches/unites-de-recherche/cbgb>

Members: CIRAD, INRAE, IRD, L'institut Agro

Contact: marie-stephane.tixier@supagro.fr - serge.kreiter@supagro.fr – jean-francois.martin@supagro.fr

UMR LEPSE – Ecophysiology Laboratory of Plants under Environmental Stress

LEPSE produces methods and knowledge to help maximizing crop production with less input, essentially water. This objective was initially assigned in the context of the necessity to limit water use by agriculture. Ongoing climate change, with global temperature elevation, increased probability of heat waves and drought episodes have led us to widen our domain of research.

Information: https://www6.montpellier.inrae.fr/lepse_eng/

Members: INRAE, L'institut Agro

Contact: anne.pellegrino@supagro.fr

Internship offers: <https://www6.montpellier.inrae.fr/lepse/Travailler-et-etudier-avec-nous/M2-Ingenieur>

CEFE – Centre for Functional and Evolution Ecology

CEFE is currently the largest French research center in Ecology and Evolutionary Biology. Its mission is to perform independent, fundamental scientific research on the dynamics and evolution of biodiversity, planetary environmental change, and sustainable development. The CEFE works at a great variety of field sites around the world, but developed particular expertise in Mediterranean and tropical ecosystems. Its main objectives are to understand the dynamics and functioning of ecological systems, and to develop scenarios on their evolution as well as strategies for their conservation and their restoration

Information: <http://www.cefe.cnrs.fr/fr/>

Members: UM, CNRS, UM3, IRD, EPHE, INRAE, **L'institut Agro**

Contact: elena.kazakou@supagro.fr

Internship offers: <http://www.cefe.cnrs.fr/fr/emploi-stage-2/offres-de-stages>

SABP Department - Department of Sciences for Agro-Bio-Processes

UMR G-EAU - Water Management, Actors, Uses

G-EAU conducts researches on hydrosystems, from physical description to integrated water management; it contributes to the design and evaluation of facilities to develop innovating solutions and policies for improved water management. The unit is strongly involved in the UNESCO water center ICIREWARD and hosts many students from the MSc programme Water Sciences ('Water and Agriculture' and 'Water and Society') for their research internships

Information: <http://www.g-eau.fr/index.php/en/>

Members: INRAE, CIRAD, IRD, AgroParisTech, BRGM, **L'institut Agro**

Contact: gilles.belaud@supagro.fr - francois.colin@supagro.fr - armand.crabit@supagro.fr

Internship offers: <http://www.g-eau.fr/index.php/en/jru-g-eau/recruitment>

UMR IATE – Agro-Polymer Engineering and Emerging Technologies

IATE is active in the field of agrifood and green chemistry. It comprises seven research teams who generate knowledge regarding the structural-functional properties of plant-based products upon transformation to food, biomaterials, biomolecules and bioenergy. Societal challenges, such as food security and a transition towards a bio-based society, serve as fuel for creativity and new research activities.

Information: <https://umr-iate.cirad.fr/en>

Members: INRAE, UM, **L'institut Agro**

Contact: maeva.subileau@supagro.fr – eric.dubreucq@supagro.fr

UMR ITAP – Technologies and methods for the agriculture of tomorrow

With the aim of developing equipment for a more sustainable agriculture and for services related to the environment, UMR ITAP develops the scientific and technical bases of the following topics: information and associated systems (optical measurements, decision support systems), eco-technologies for sustainable agricultural production (including equipment for crop protection and maintenance), environmental and social assessment based on life cycle assessments.

Information: <https://itap.inrae.fr/>

Members: INRAE, **L'institut Agro**

Contact: bruno.tisseyre@supagro.fr

Internship offers: https://itap.irstea.fr/?page_id=59

UMR MISTEA – Mathematic, Computing & Statistic for Environment and Agronomy

The activities of MISTEA concern the development of mathematical, statistical and computer science methods dedicated to analysis and decision support for Agronomy and Environment, with particular emphasis on the temporal dimension and complexity.

Information: https://www6.montpellier.inrae.fr/mistea_eng/

Members: INRAE, **L'institut Agro**

Contact: benedicte.fontez@supagro.fr

Internship offers: <http://www6.montpellier.inrae.fr/mistea/Offres-de-stage-these-emploi>

UMR QUALISUD – Integrated Quality Food System

QUALISUD aims at developing an integrated approach for production and preservation of products and food with optimum organoleptic, health and nutritional optimal qualities.

Information: <http://umr-qualisud.cirad.fr/en/the-research-unit>

Members: CIRAD, UM, Avignon Université, IRD, Université de la Réunion, **L'institut Agro**

Contact: manuel.dornier@cirad.fr - antoine.collignan@supagro.fr

UMR SPO – Sciences for Enology

SPO is one of the most important organizations involved in research in enology worldwide. It comprises 3 research teams: Adaptation, Diversity, Ecology of yeasts (ADEL), Alcoholic fermentation: Yeasts, Aromas, Metabolism (FLAM), Biomolecules of enological interest (BIO). Close interactions with the Inrae Experimental Unit of Pech Rouge-Narbonne (UE PR) allow the development of research projects up to pilot or pre-industrial scale and provide unique opportunities for innovation and transfer.

Information: https://www6.montpellier.inrae.fr/spo_eng/

Members: UM, INRAE, L'institut Agro

Contact: bruno.blondin@supagro.fr

SESG Department - Sciences Economiques, Sociales et de Gestion

UMR INNOVATION – Innovation and Development in Agriculture and Agri-Food Sector

The mission of INNOVATION is to inform private and public actors' decision-making by producing knowledge on the processes of innovation and development in agricultural and food systems. Its research focuses on innovation processes, ranging from understanding the objectives of the actors wanting to innovate to analyzing innovations' impact on development. Its research also covers the methods required to support the actors who innovate.

Information: <https://umr-innovation.cirad.fr/en>

Members: CIRAD, INRAE, L'institut Agro

Contact: stephane.de-tourdonnet@supagro.fr

UMR CEE-M – Center of Environmental Economics- Montpellier

CEE-M aims at developing a plurality of works through specific tools (Market Econometrics, behavioral economics, experimental economics, public economics, history of economics thought, micro economy, social economy, game theory). The targeted areas are as follow: Risks, Preferences and behaviors; Public decision, collective actions and social ethic; Competition, regulations and network industry and finally Environment, natural resources and biodiversity.

Information: <http://www.cee-m.fr/>

Members: INRAE, CNRS, UM, L'institut Agro

Contact: pauline.lecole@supagro.fr

UMR MoISA – Montpellier Interdisciplinary center on Sustainable Agri-food systems (Social and nutritional sciences)

MoiSA gathers researchers and lecturers in social sciences and nutrition from CIRAD, INRAE, IRD, Montpellier Supagro and Ciheam-IAMM, under Muse (Montpellier University of Excellence). We research stakeholders' strategies and behaviour in the agri-food systems of Mediterranean and tropical areas, and their results in terms of food security and sustainable development. The main disciplines of research are in social sciences: micro-economics, economics of organization, management, sociology, anthropology, political science); and public nutrition.

Information: <http://umr-moisa.cirad.fr/>

Members: CIRAD, INRAE, IRD, CIHEIAM-IAMM, L'institut Agro

Contact: lucie.sirieix@supagro.fr

Internship offers: <http://umr-moisa.cirad.fr/offres-stages-theses-post-doc>

UMR SENS – Savoirs, Environnement, Sociétés

SENS is structured around the following objectives: 1) to produce knowledge on the mechanisms underlying the relations and tensions that make up the society-environment nexus; 2) to accompany social and institutional initiatives and innovations aimed at sustainably influencing, at different scales, the trajectories of ecological and social systems; 3) to consolidate reflexive approaches to our role as scientists with regard to the complexity of the phenomena studied, their ethical and political dimensions, and the necessary co-construction of knowledge and practices oriented towards sustainability.

Information: <https://umr-sens.fr/>

Members: IRD, UM3, L'institut Agro

Contact: pascale.maizi@supagro.fr - marie-jeanne.valony@supagro.fr