



## LABEX AGRO, CEMEB ET NUMEV JOINT CALL FOR PROPOSALS 2016 POST-DOCTORAL GRANTS

The Labex Agro, Labex CeMEB and Labex NUMEV are launching a Call for Proposals to support interdisciplinary research projects, at the interface between their scientific domains and networks.

The Labex Agro ([www.agropolis-fondation.fr/fr/labex-agro-developpement-durable.html](http://www.agropolis-fondation.fr/fr/labex-agro-developpement-durable.html)) gathers 41 research units working in the area of "agricultural sciences and sustainable development." It supports a research network with scientists working on a continuum of multidisciplinary knowledge (biological sciences, engineering sciences, social sciences and humanities) -from the study of genetics to agro-ecosystems to final use of agricultural products and interaction between agriculture and society; and with recognized expertise over numerous plant species from temperate, Mediterranean and tropical areas, the production systems and processing.

Labex CeMEB ([www.labex-cemeb.org](http://www.labex-cemeb.org)) brings together 10 research units working in the field of "ecology, evolution and biodiversity," interested in the dynamics and functioning of biodiversity and ecosystems in a context marked by environmental changes, induced particularly by human activities. Covering all types of ecosystems (from the equator to the poles, both terrestrial and marine) and living organisms (from microorganisms to large mammals), its research focuses particularly on biodiversity and the "wild" ecosystems through many long-term field research programmes. Their approaches combine observation and modelling, with strong contributions from experimentation.

Labex NUMEV ([www.lirmm.fr/NUMEV](http://www.lirmm.fr/NUMEV)) gathers 7 research units and several INRIA teams aims to foster interaction involving hard sciences (Mathematics, Computer Science, Electronics, Physics, and Mechanics), life and environmental sciences in order to facilitate the emergence of an internationally visible interdisciplinary centre. Labex NUMEV aims to contribute in providing substantive inputs to scientific and societal challenges that concern the management of resources, interactions between the environment and society, human health and global change. Thus one of the main roles of Labex NUMEV is to break down barriers between "hard science" research, by extending existing collaborations and integrating research teams or units that are working on other expertise of the site (Agricultural science, environment, biodiversity, life science and health).

Six post- doctoral grants (for a duration of 18 months, 2017-2018) will be funded under this Call (two per Labex).

### 1. RESEARCH SUBJECTS ELIGIBILITY

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#### 1.1. Scientific themes

Projects proposals should imply a strong interdisciplinarity, mobilize disciplines and tackle thematic issues of at least two Labexes. The lists of research units/research teams of the three Labexes are given in



Annex 1. Projects shall focus on the front edge of Science and/or propose innovative approaches. Projects with a structuring effect on the communities of different Labexes and international influence will be favored.

### **1.2. Project application**

Projects proposals shall involve at least two Labexes and two research units. The projects submitted by research units/teams members of two Labexes will only be considered if they have a real cross-Labex logic and have an innovative character in relation to interdisciplinary research already carried out by these teams.

Projects shall be carried out within the project leaders' units.

## **2. ELIGIBILITY AND SELECTION OF CANDIDATES**

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Project leaders are not required to have identified a candidate upon submitting the proposal. The profile of the ideal candidate shall be mentioned in the project. If a candidate has been identified, his/her CV should be attached to the application form.

### **2.1. Eligibility**

The candidate shall not have carried out his thesis in one of the units of the three LabExes. The candidate who worked as a post-doc, should not have spent more than a year in France over the past 3 years. The candidate must have obtained his PhD in a 6-year period preceding his/her application.

### **2.2. Proposal and selection**

After selection of the project, an eligible candidate shall be identified by the project leaders. The Inter-Labex Selection Committee will examine the candidates 'profile in due course. The Committee may reserve the right not to accept a candidate whose scientific level is deemed insufficient. In the event that a first candidate is refused, the project leader will be able to propose another candidate before 30 August 2017. In the absence of a candidate identified and accepted after that date, the post-doctoral grant of the project would be canceled and reported on a project of the waiting list.

At equal quality, candidates with an international carrier will be favored.

### **2.3. Start-up of the contracts**

Contracts should start within a reasonable time after the selection of the candidate, and imperatively completed before July 2019.

## **3. FUNDING**

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### **3.1. Scope of funding**

This CfP funding covers six post-doctoral grants for a period of 18 months. Staff will be remunerated according to the pay scales of the institution managing the employment contract (see below), taking into account their work experience. The research operating costs will be covered by the research units/teams.

### **3.2. Administrative arrangements**

For projects financed by CeMEB and NUMEV, employment contracts will be established by the University of Montpellier. For those funded the Labex Agro, contracts will be issued by the project leader's institution with which Agropolis Fondation has signed a funding agreement.



The process of signing scientific agreement and obtaining visa for foreign post-docs will be carried out by the host research units/teams.

#### 4. CALENDAR OF THE CALL FOR PROPOSALS

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- Publication of the Call : June 2016
- Deadline for submission of project proposals (see submission procedure): Friday, 9 December 2016 (12h00 - lunchtime)
- Evaluation Committee meeting: End of January or beginning of February 2017
- Results announcement: February 2017
- Deadline for submitting a candidate's name: 30 August 2017
- Start-up of projects, following the candidates' selection. Contracts shall be finalized before end of July 2019.

#### 5. APPLICATION AND PROJECT SELECTION PROCEDURE

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##### 5.1. Project proposal submission

Applications shall be sent to: [agrocemebnumev@umontpellier.fr](mailto:agrocemebnumev@umontpellier.fr)

Any questions may be sent to the same address until 9 December 2016.

##### 5.2. Application form

***Applications shall be written in English, and signed by all the Directors of the Research Units (RU) involved (leading and partner RU) – Applications shall be sent in one single document, both in Word and Pdf formats and shall include the following:***

- Project description, using the attached application form (6-8 pages maximum)
- CV of the candidate (if identified) mentioning the date of completion of the PhD and the main publications (3 pages maximum)

##### 5.3. Selection criteria

C1 – Scientific quality of the topic chosen. Score from 1 to 5: Coherence and quality of the scientific proposal, scientific ambitions, relation to the state of the art, innovative methodology developed to attain the objectives

C2 – Degree of interdisciplinarity (inter-Labex interdisciplinarity). Score from 1 to 5: Degree of interdisciplinarity of the project and innovative nature compared to other existing interdisciplinary projects, development of new inter-Labex synergies

C3 – Quality of project set-up: clarity and feasibility of the conditions of implementation of the project (goals/methods). Score from 1 to 5.

##### 5.4. Selection process

The proposal evaluation committee will be composed of a representative of the management of each Labex. Each proposal will be evaluated by at least two expert evaluators (internal or external to the community) identified by each Labex. Eligible candidates (see 2. ELIGIBILITY AND SELECTION OF CANDIDATES) proposed by the leaders of the selected projects will be evaluated in due course by an inter-Labex *ad hoc* commission.



## ELIGIBLE RESEARCH UNITS

### **Labex Agro**

Contact Labex Agro : [poulaert@agropolis.fr](mailto:poulaert@agropolis.fr)

#### Sciences du végétal / Plant Science

- AGAP :** Amélioration génétique et adaptation des plantes méditerranéennes et tropicales  
*Genetic Improvement and Plant Adaptation of Mediterranean and Tropical Plants*
- AMAP :** Botanique et bioinformatique de l'architecture des plantes  
*Botany and Computational Plant Architecture*
- BPMP :** Biochimie et physiologie moléculaire des plantes  
*Biochemistry and Plant Molecular Physiology*
- DIADE :** Diversité, adaptation et développement des plantes  
*Crop Diversity, Adaptation and Development*
- GAFL :** Génétique et amélioration des fruits et légumes  
*Genetics and Improvement of Fruit & Vegetables*
- LEPSE :** Laboratoire d'écophysiologie des plantes sous stress environnementaux  
*Laboratory of Plant Ecophysiological responses to Environmental Stresses*
- LGDP :** Laboratoire génome et développement des plantes  
*Plant Genome and Development Laboratory*
- PSH :** Plantes et systèmes de culture horticoles  
*Plant and Garden Cropping Systems*

#### Interactions plantes microorganismes / Plant-Microorganisms interactions

- BGPI :** Biologie et génétique des interactions plante-parasite  
*Biology and genetics of plant/pathogen interactions*
- Bioagresseurs :** Analyse et maîtrise du risque  
*Pests and Diseases in Tree Crop: Risk analysis and Control*
- CBGP :** Centre de biologie pour la gestion des populations  
*Centre for Biology & Management of Populations*
- DGIMI :** Diversité, génomes et interactions microorganismes insectes  
*Diversity, genome and microorganism-insect interactions*
- IPME :** Interactions plantes-microorganismes-environnement  
*Plant-Microorganism-Environment Interactions*
- LSTM :** Laboratoire des symbioses tropicales et méditerranéennes  
*Laboratory of Tropical and Mediterranean Symbioses*
- PATHO :** Pathologie végétale  
*Plant Pathology*
- PVBMT :** Peuplements végétaux et bio-agresseurs en milieu tropical  
*Plant communities and biological invaders in tropical environment*

#### Agronomie / Agricultural Engineering

- AIDA :** Systèmes de culture annuels  
*Agroecology and sustainable intensification of annual cropping systems*
- B&SEF :** Biens et Services des Ecosystèmes Forestiers Tropicaux  
*The Tropical Forest Goods and Ecosystem Services*
- ECO&SOLS :** Ecologie fonctionnelle & biogéochimie des sols et des agro-écosystèmes  
*Functional ecology and biogeochemistry of soils & agroecosystems*



- EMMAH :** Environnement méditerranéen et modélisation des agro-hydrosystèmes  
*Modelling Agricultural and hydrological systems in the Mediterranean environment*
- G-EAU :** Gestion de l'Eau, Acteurs, Usages  
*Water resource management, actors and uses*
- GECO :** Fonctionnement écologique et gestion durable des agrosystèmes bananiers & ananas  
*Banana, Plantain and Pineapple Cropping Systems*
- HORTSYS :** Fonctionnement agroécologique et performances des systèmes de culture horticoles  
*Agroecological Functioning and Performances of Horticultural Cropping Systems*
- ITAP :** Information – Technologies – Analyse environnementale –procédés agricoles  
*Information and technologies for agro-processing*
- LISAH :** Laboratoire d'étude des interactions sol-agrosystème-hydrosystème  
*Laboratory for studies of interactions between Soils, Agrosystems, Hydrosystems*
- MISTEA :** Mathématique, Informatique et Statistique pour l'Environnement et l'Agronomie  
*Mathematics, informatics and statistics for environment and agronomy*
- SELMET :** Système d'Elevage Méditerranéens Et Tropicaux  
*Mediterranean and Tropical Livestock Systems*
- SYSTEM :** Fonctionnement et conduite de systèmes de culture tropicaux et méditerranéens  
*Functioning and management of tropical and Mediterranean cropping systems*
- TETIS :** Territoires, Environnement, Télédétection et information spatiale  
*Land, environment, remote sensing and spatial information*
- URFM :** Unité de recherche Ecologie des Forêts Méditerranéennes  
*Ecology of the Mediterranean Forests*

#### **Transformation alimentaire et non alimentaire / Processing and quality of food and non-food materials**

- BioWooEB :** Biomasse, Bois, Energie, Bio-produits  
*Biomass, Wood, Energy, Bioproducts*
- IATE :** Ingénierie des agropolymères et technologies émergentes  
*Biopolymers and Emerging Technologies*
- LBE :** Laboratoire de Biotechnologie de l'Environnement  
*Laboratory of Environmental biotechnology*
- NUTRIPASS :** Nutrition et alimentation des populations aux Suds  
*Food and nutrition research in the global South*
- QUALISUD :** Démarche intégrée pour l'obtention d'aliments de qualité  
*Integrated food quality system*
- SPO :** Sciences Pour l'œnologie  
*Sciences for Œnology*
- SQPOV :** Sécurité et qualité des produits d'origine végétale  
*Security and quality of plant products*

#### **Interactions agriculture – sociétés / Agriculture-Society interactions**

- GREEN :** Gestion des ressources renouvelables et environnement  
*Renewable resources and environment management*
- INNOVATION :** Innovation et développement dans l'agriculture et l'agro-alimentaire  
*Innovation & development in Agriculture & the Agrifood Sector*
- LAMETA :** Laboratoire Montpellierain d'économie théorique et appliquée  
*Montpellier Laboratory for Theoretical and Applied Economics*
- MOISA :** Marchés, organisations, institutions et stratégies d'acteurs



*Markets, Organisations, Institutions and Stakeholders' strategies*

## **Labex CeMEB**

Contact Labex CeMEB: [cemeb@univ-montp2.fr](mailto:cemeb@univ-montp2.fr)

<http://www.labex-cemeb.org/>

**AMAP - Botanique et Modélisation de l'architecture des plantes et des végétations**

*Botany and Computational Plant Architecture*

<http://amap.cirad.fr/fr/index.php>

**CBGP - Centre de biologie pour la gestion des populations**

*Centre for Biology & Management of Populations*

<http://www6.montpellier.inra.fr/cbgb>

**CEFE - Centre d'Ecologie Fonctionnelle et Evolutive**

*Functional and Evolutionary Ecology Centre*

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

**ECO & SOLS - Ecologie fonctionnelle et biogéochimie des sols et des agro-systèmes**

*Functional ecology and biogeochemistry of soils & agroecosystems*

<http://www.umr-ecosols.fr/index.php/fr>

**IHPE - Interactions Hotes-Pathogènes-Environnements**

*Host-Pathogen-Environment Interactions*

<http://ihpe.univ-perp.fr>

**ISEM - Institut des sciences de l'évolution de Montpellier**

*Institute of Evolutionary Sciences of Montpellier*

<http://www.isem.univ-montp2.fr/>

**LAMETA - Laboratoire Montpellierain d'Economie Théorique et Appliquée**

*Montpellier Laboratory for Theoretical and Applied Economics*

<http://www.lameta.univ-montp1.fr/>

**MARBEC - Marine Biodiversity, Exploitation & Conservation**

<http://www.umr-marbec.fr/fr/>

**MIVEGEC – Maladies Infectieuses et Vecteurs : Ecologie, Génétique, Evolution et Contrôle**

<http://mivegac.ird.fr/fr/>



## Labex NUMEV

Contact : [numev-direction@umontpellier.fr](mailto:numev-direction@umontpellier.fr)

<http://www.lirmm.fr/numev/index.php/contacts/contact-axe>

<http://www.lirmm.fr/numev/index.php/contacts/contact-ip>

**EUROMOV – Centre Européen de recherche sur le mouvement humain**

<http://euromov.eu>

**IES – Institut Electronique du Sud**

<http://www.ies.univ-montp2.fr>

**IMAG – Institut Montpellierain Alexander Grothendieck**

<http://www.i3m.univ-montp2.fr>

**LIRMM – Laboratoire d'Informatique, Robotique et Microélectronique de Montpellier**

<http://www.lirmm.fr>

**LMGC – Laboratoire de Mécanique et Génie Civil**

<http://www.lmgc.univ-montp2.fr>

**L2C – Laboratoire Charles Coulomb**

<http://www.coulomb.univ-montp2.fr>

**MISTEA - Mathématiques, Informatique et STatistique pour l'Environnement et l'Agronomie**

<http://www6.montpellier.inra.fr/mistea/>

### INRIA TEAMS

- CAMIN - <http://www.lirmm.fr/camin/>
- Graphik, - <https://team.inria.fr/graphik/>
- Lemon, - <https://team.inria.fr/lemon/en/>
- Virtual Plants - <http://www.inria.fr/equipes/virtual-plants>
- Zenith - <http://www.inria.fr/equipes/zenith>