CIHEAM MONTPELLIER

JOB VACANCY

Recruitment of a Research Engineer
in Agricultural Economics Modelling
Position to be filled for 36 months
(12-month full-time fixed-term contract, renewable 2 times)

The Mediterranean Agronomic Institute of Montpellier (CIHEAM Montpellier), one of the four institutes of the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), is an intergovernmental organization whose mission is the development of higher education and lifelong learning, research and cooperation in the Mediterranean area. Within the scope of the DIONYSUS project, CIHEAM Montpellier offers a position of a Research Engineer.

CONTEXT

DIONYSUS is a PRIMA Project (Section 1) whose objective is to co-design, test and develop operational adaptation solutions and sustainable market solutions via innovative business-based models for the efficient and sustainable use of water-energy-food-ecosystem resources, that rely on local and regional initiatives, bring together and engage local and international stakeholders, and use a Cross-Sectoral Nexus adaptation tool for a transition to a Green Economy and Sustainable Development.

ROLE

The Research Engineer (RE) will play a pivotal role in the project, combining among others tasks from both WP2 (Assessment of the 4 WEFE policies), WP3 (Data and Modeling chain) and WP5 (Scaling out). Mainly, the RE will participate in the integration of WEFE elements into a bioeconomic model (DAHBSIM model) and the assessment of WEFE policies.

The main role of the RE will be modelling. He or she will have to expand the DAHBSIM model by assimilating Energy and Value-Chain constituents from the Water-Energy-Food-Ecosystems (WEFE) framework. The core aim is to forge an integrated model chain that accurately captures the intricate interplays between water, energy, food, and ecosystems. It will liaise with partners to collect the data needed to run the models. The RE, in liaison with other partners, will be responsible for running simulations of co-developed scenarios. The results will be communicated and discussed with the stakeholders throughout an iterative process until a list of WEFE Nexus-based adaptation solutions has been finalized.
As part of the scalling-out activities, the RE's tasks will include training and creating methodologies and guides.

He/she will also be involved in writing deliverables.

ACTIVITIES AND TASKS

- Extend a bioeconomic model (DAHBSIM)
- Prepare the database, calibrate the modelling chain
- Perform simulations
- Retrieving, analyzing et valorizing data and results
- Participation in writing project reports and scientific articles

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REQUIREMENTS

The ER candidate must meet the following requirements:

- PhD or Master 2 in Economics or Agronomy or Computer science
- Minimum 3 years of experience in Economics or Agronomy or Computer science
- Excellent knowledge of modelling
- Knowledge of bio-economic modelling would be an asset
- Skills in GAMS would be a plus
- Fluency in spoken and written English

PERSONAL SKILLS REQUIRED

• Excellent organizational skills;

• Dynamism, reactivity and autonomy;

• Skills of writing and synthesis (work plans, technical reports and other acts and management, ordinary correspondence, notes, messages, summary sheets);

• Good teamwork abilities, particularly in a multicultural and multi-disciplinary context;

• Interest for interaction with other tasks, partners and other projects

JOB SPECIFICATIONS

• Contract duration: 36 months

• Full-time 37,5h a week

• 8 weeks holidays

• Salary according to experience (2300-2700 gross salary)

• Location: Mediterranean Agronomic Institute of Montpellier (Route de Mende, Montpellier, France) with occasional travels in different partner countries

• This job offer is subject to Grant Agreement to be signed shortly

Contact for any information on the project: bourceret@iamm.fr and kleftodimos@iamm.fr

CIHEAM Montpellier is committed to a policy of non-discrimination and gender, and to an environmentally responsible approach. Position open to people with disabilities.

SELECTION PROCESS

The application must be written in English and include a CV and a cover letter concerning the missions defined in the job description.

Deadline for Submission: 5 May 2024

Selection interview: mid May 2024

Selection Committee: mid May 2024

Starting Date: 01 June 2024

The application file must be sent by email with the following object "DIONYSUS RE Modelling candidate Vacancy" to emploi@iamm.fr with a copy to bourceret@iamm.fr

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