

UNIVERSITY OF ANGERS

Laboratory of Planetology and Geosciences

French civil servant Category: A

Job title:

Estuarine biogeochemical modeling for hypoxia remediation

Post-doc Researcher

Presentation of the University of Angers

Located in a region renowned for its quality of life, the University of Angers, the third largest employer in the area, offers an environment conducive to the well-being of its staff and students. As a member of the Angers-Le Mans University Community (COMUE), UA is a multidisciplinary university with a health sector, hosting more than 25,000 students on 3 campuses in Angers (Belle-Beille, Saint-Serge, and Santé) and 2 decentralized campuses (in Cholet and Saumur). It comprises 8 components (4 faculties, 1 IUT, 2 internal engineering schools, and 1 IAE) and 31 research federative units and structures.

Enabling its graduates to thrive and find employment after their studies is a priority. UA aims to provide personalized support to each individual and boasts the highest success rate for bachelor's degrees in France and a job placement rate of around 90%.

Thanks to its many innovative projects and its openness to the world, UA allows everyone to develop in a stimulating environment. Its annual budget is 156 million euros (including 123 million euros for salaries). UA has 1,134 teachers and teacher-researchers, 882 administrative and technical staff, and nearly 2,000 part-time lecturers, and is looking for committed and bold individuals. Come and join us!

Characteristics of the contract

Start date of the position: April 2024

Duration of contract: 18-or 24 months

Workload: full-time

Gross monthly salary: ~2,600€ (depending on experience and profile)

Place of work: Angers and Nantes

Description of the department and the position of the agent in the organization

(Mission of the unit, hierarchical supervisor, environment, constraints)

- Description and missions of the research unit

The Laboratoire de Planétologie et Géosciences (UMR 6112) is a research unit supported by the Universities of Angers, Nantes and Le Mans and the CNRS. It is a multi-site unit developing research in a wide range of fields within the geosciences. The UMR is structured around research themes and the post-doctoral contract is part of the "Coastal and Marine Systems" theme. This theme addresses issues of natural and anthropogenic variability in coastal and marine environments. Within this framework, there are numerous interactions with government agencies and local authorities responsible for environmental and biodiversity management.

- Composition of the laboratory

The UMR is made up of about a hundred civil servants, divided between the Angers, Nantes and Le Mans units, with about 25 people in Angers.

- Line manager

Edouard Metzger, assistant manager of the UMR in Angers.

- Constraints :

Extensive travel between Nantes and Angers, sampling campaigns lasting several days, including weekends and public holidays.

Missions and activities

The European Union and the Pays de la Loire region have commissioned the LPG to study hypoxia in the Loire estuary and the potential role of the benthic compartment of the estuary in triggering or maintaining these summer periods of low oxygen. The aim is to complete a study begun in 2020 (which has led to the completion of 2 doctoral theses and a 12-month post-doctorat fellowship), with the aim of developing management scenarios to reduce the impact of these hypoxic periods, which have a major environmental impact.

Relying on the national network of researchers involved in the various ongoing projects on the Loire, and mainly through the implementation of biogeochemical models, the post-doctoral researcher recruited will be expected to:

1. improve, in time and space, the significance of the results obtained by the 2 PhD theses;
2. identify the forcing factors that managers can influence;
3. predict short-term hypoxia trends;
4. produce a scientific report for stakeholders;
5. organize a training and exchange day for institutional and non-institutional partners.

Required skills :

Knowledge:

- Marine chemistry,
- Marine biology,
- Estuary Functioning

Skills:

- Biogeochemical modeling
- Chemical analysis in marine matrix (nitrogen and phosphate species, metals)
- Field missions
- Coordination of scientific networks
- Writing of activity reports and scientific articles
- Scientific communication to academics and the general public

Personal qualities:

- Autonomy
- Interpersonal skills
- Scientific curiosity
- Pedagogy

Education / background

Diploma:

BEP Bac Bac +2 Bac +3 Bac +5

Specialisation: biogeochemistry

Experience

Beginner / Novice

Desired Experience: Publications on the topic of the project will be appreciated. Prior experience of 1-3 years in similar research contexts and programs is preferred.

Recruitment details and contact information

Please submit your CV and cover letter by email to edouard.metzger@univ-angers.fr / gregoire.maillet@univ-angers.fr / recrutement@univ-angers.fr or on the University website.

Application deadline: March 15th 2024

This job description is available until the application deadline.

After this date, it will no longer be accessible on the website.

For any additional information, you can contact : edouard.metzger@univ-angers.fr / gregoire.maillet@univ-angers.fr or