

**ANGERS UNIVERSITY**  
LAREMAJunior Contract Researcher  
Post-doctoral contract in public law

Category : A

### Presentation of the University of Angers

In the heart of a region recognized for its quality of life, the University of Angers, the 3rd largest employer in the region, offers an environment conducive to the development of its staff and students. The UA is a multidisciplinary university, welcoming more than 25,000 students spread over 3 campuses and 2 relocated campuses (in Cholet and Saumur). It has 8 components (5 UFR, 1 IUT, 1 internal engineering school and 1 internal business and management school), and 31 federative research units and structures. Thanks to the many innovative projects it carries out and its openness to the world, the AU allows everyone to evolve in a stimulating environment. Its annual budget is €156 million (including €123 million in payroll). The UA has 1134 teachers and teacher-researchers, 882 administrative and technical staff and nearly 2000 individual contractors and is looking for involved and daring actors. You recognize yourself in this job offer ? Join us !

### Contract features:

**Starting date:** Sept 1st, 2024**Contract duration:** 24 months French law work contract**Work quota:** 100%**Monthly wage:** 4282,68€**Location:** Angers University, Laboratoire angevin de recherche mathématique (Larema)**Name of research project:** High Frequency Analysis

### Description of the research project in which the research activities entrusted to the officer take place:

This post will be funded for 24 months by the Connect Talent Project of the Region Pays de la Loire "High Frequency Analysis". The role involves a close collaboration with Clotilde Fermanian-Kammerer (Principal-Investigator, Université d'Angers) and Nicolas Raymond (Co-Investigator, Université d'Angers) on the project.

The projet HiFrAn belongs to the fields of Analysis of Partial differential equations (PDEs) and of Mathematical Physics. It aims at studying the properties of solutions of equations modelling physical phenomena and at describing approximations of quantities that are relevant for physics. The project is dedicated to systems of equations arising in quantum mechanics, with a focus on those with sub-elliptic features, especially in a magnetic setting. The project mixes different fields of mathematics - spectral theory, analysis of PDEs, harmonic analysis, numerical analysis - and has an active interface with theoretical chemistry.

**Provisional project schedule:** Sept 1<sup>st</sup>, 2023 – August 31<sup>st</sup>, 2027

## Definition of research activities and tasks to be accomplished:

The main purpose of the job is to provide research expertise and work on the Connect Talent Project of the Region Pays de la Loire “High Frequency Analysis” in collaboration with the two investigators. The recruited person will be responsible to the two investigators for:

- Conducting collaborative research on the project and contributing to the development of research objectives.
- Writing up results of research and contributing to the publication in high-quality peer-reviewed academic literature.
- Disseminating results of research project via talks and lectures at seminars, conferences, workshops, summer schools etc.
- Participating regularly in group meetings and prepare and deliver presentations to project team.
- Project management: e.g. timetabling and meeting project milestones; participating in regular discussions with collaborative partners.

## Expected skills:

- **Knowledge:** A PhD degree in an area of mathematics of direct relevance for the project, or an equivalent professional qualification (and significant relevant experience where applicable).

### Know-how:

- Ability to conduct individual research work and to disseminate results.
- Ability to write research reports and to effectively disseminate outcome.
- Ability to organise and prioritise own workload to meet required deadlines.
- Excellent oral, interpersonal and written communication skills.

### Soft skills:

- Commitment to working within professional and ethical codes of conduct.
- Innovation and developing creative solutions.
- Commitment to excellence in research.
- Enthusiasm and self-motivation.
- Tenacity – working to achieve own and team objectives and to overcome obstacles.
- Ability to be an effective team worker.
- Commitment to safe working

## Qualifications

### **PHD degree of less than 3 years**

Specialty: Mathematics

## Recruitment procedures and contact :

**You must submit your CV, cover letter and doctoral degree** by mail at : [clotilde.fermanian@univ-angers.fr](mailto:clotilde.fermanian@univ-angers.fr) & [nicolas.raymond@univ-angers.fr](mailto:nicolas.raymond@univ-angers.fr) **copy to :** [recrutement@univ-angers.fr](mailto:recrutement@univ-angers.fr)

**Deadline for applications: 31/01/2024**

**This job description is available until the closing date for applications.  
On that date, it will no longer be available on the website.**

**If needed, your contacts for any further information:**

Clotilde Fermanian Kammerer ([clotilde.fermanian@univ-angers.fr](mailto:clotilde.fermanian@univ-angers.fr))  
Nicolas Raymond ([nicolas.raymond@univ-angers.fr](mailto:nicolas.raymond@univ-angers.fr))