



DIRECTION DES PÔLES ET PROJETS

PÔLE BIOLOGIE

JOB PROFILE
**Project engineer,
Investigations in Onco-Hematological Disease Research**

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Editor : Pr Thierry FEST, Head of Department

Application date: September 2023

Approver : F. Preville, Senior Health Executive

Manager : Pr Thierry FEST

LOCATION AND AFFILIATION

Biology Department, Cellular Hematology and Bioclinical Hemostasis Laboratory

PLACE OF PRACTICESector : **Hématologie Cellulaire**Functional Unit : **Hematological Genomics (3206)**

The genomics FU 3206 :

- It is an integral part of the CHU oncogenomics laboratory;
- Its activity enables cross-disciplinary approaches to the integration of multiple data, both clinical and derived from genome or proteome analyses.
- genome or proteome analyses, in connection with projects supported by public or private funding,
- Environment of researchers, biologists, laboratory technicians and medical and pharmaceutical interns, students;
- Staff: Thierry Fest (PU-PH, head of UF) and Céline Pangault (MCU-PH).

HIERARCHICAL RELATIONSHIP: position in the organization chart

Administrative responsibility : P. NICOLAS, local manager
F. PREVILLET, Senior Health Executive

Medical responsibility : Professeur Thierry FEST, Department Head & UF Manager

MAIN FUNCTIONAL RELATIONSHIPSInternal functional relations:

Working with biologists, technicians from other functional units, laboratory assistants and secretaries, within the framework of projects for which he is responsible

External functional links :

Clinical Research Department, Inserm U1236 unit, Biological Resource Center, Clinical Investigation Center for project set-up.

ACTIVITIES

MISSIONS

Mission :

- *) as a project engineer, his/her activity will be mainly focused on fundamental research with the development of innovative and original molecular approaches, integrating complex, multi-step biological processes oriented towards genome and epigenome regulation. Analyses of genome expression regulation, protein-protein interaction, single-cell analysis the development of 3D cancer models using primary cells, transgenic animal models and in silico research are all important factors in the advancement of knowledge. This research will be part of national and international competition, and will be financed mainly through projects submitted to national and international calls for projects.
- *) is linked to the specific management of a given research project, in liaison with the lab and research manager; the project's progress will be assessed at regular intervals.
- *) will require the implementation of innovative biological approaches, the use of cell models adapted to capture functional variations during cell differentiation, the development of dedicated animal models, the use and development of bioinformatics tools for omic data analysis.
- *) at the interface between the Biological Hematology Department of Rennes University Hospital and the onco-hematology research activities developed at UMR Inserm U1236, the researcher will contribute to the development of expertise, advances in onco-hematology research, the valorization of research results, and training in and for research.
- *) will be focused on scientific projects, which will require the formulation of proposals, the preparation of scenarios and the recommendation of choices integrating financial and human aspects. Analyzing the results is an important part of the job, and involves presenting reports and/or publications, both internally and externally (congresses, meetings with partners, etc.), and the formulation of proposals to improve the relevance of the research, with the aim of moving the project forward.
- *) participation in the supervision of technical staff, and in the reception and training of trainees and students (Masters and PhD).

MAIN ACTIVITIES

Main tasks :

- Organize and carry out experiments required for projects related to the position.
- Implementation of new bioinformatics techniques and analyses, which may be applied in the following areas
- specialized biology for diagnosis and patient follow-up in the biological hematology department
- Drafting of projects for financial applications and scientific reports
- Scientific monitoring, scientific communications and publications, participation in training courses and congresses
- Supervision and training of technical staff and students
- Participation in scientific promotion activities

• PROFESSIONAL DIPLOMA(S) REQUIRED

University thesis (PhD) in molecular and cellular biology, or immunology, with post-doctoral experience.

EXPERIENCE(S) AND KNOWLEDGE REQUIRED

- In-depth knowledge of cellular and molecular biology
- Proficiency in molecular techniques related to genome expression regulation
- Previous professional experience with a biological model for cellular functional analysis
- Proficiency in bioinformatics, including implementation of analysis tools
- Experience abroad highly appreciated
- Knowledge of immunology and hematology
- Project management and development, experience in drafting projects in response to calls for tender
- Perfect command of English
- Staff management
- Knowledge of and compliance with health and safety regulations applicable to this position

QUALITIES REQUIRED

- Rigor and passion for research
- Curiosity to improve investigation methods
- Autonomy in conducting research and developing new techniques
- Ability to work as part of a team
- Open-mindedness and ability to adapt to change
- Initiative, cross-functionality

- **WORKING CONDITIONS**

Full-time, Monday to Friday

Permanent contract with a trial period

Open to all EU citizens

Opportunity to complete training and CV before applying for an Inserm or CNRS permanent position

Position available from first half of 2024

CONTACT & INFORMATION : thierry.fest@univ-rennes1.fr

**THIS JOB PROFILE MAY BE MODIFIED ACCORDING TO
DEPARTMENTAL OR INSTITUTIONAL DEVELOPMENTS
ONLY THE INTRANET VERSION IS VALID AND MASTERED**