



Délégation Paris Villejuif - Job profile

Corps ▶ Ingénieur-e d'études **BAP** ▶ C-Sciences de l'ingénieur et instrumentation scientifique
N°NOEMI ▶ M56022

Emploi type ▶ Ingénieur-e en techniques expérimentales. **Fonction** ▶ Groupe 3 – Temps plein.

Unité ▶ B2OA UMR CNRS 7052 **Directeur d'Unité** ▶ Hervé Petite

Mission

The engineer in experimental techniques will be in charge of the development and implementation of experimental protocols aimed at characterizing the phenotype and the functionality of stem or differentiated cells from cell culture in the Osteoarticular Bioengineering and Bioimaging UMR CNRS 7052 laboratory.

Duration

1 year.

Recruitment starting on 2018, April 1st.

Job activities

- To develop and to implement tests measuring the phenotype and the functionality of stem or differentiated cells from cell culture or explants.
- To develop and to implement quantitative assays for gene (qPCR and PCR array) and protein (Western Blot, Immunocytochemistry, Elisa, Luminex) expression of stem or differentiated cells from cell culture or explants.
- To conduct experiments.
- To manage lab apparatus (PCR, spectrophotometer, luminometer) and related consumables.
- To organize and control preventive maintenance and troubleshooting interventions of lab apparatus.
- To monitor technological and scientific advances in the field or research in connection with the researchers and to develop and to adapt the experimental protocols accordingly.
- To train and to ensure technology transfer to the lab members and external interlocutors.
- To write technical notes on the different systems and experimental approaches used.
- To participate in the evaluation of the results.

Required skills

- General knowledge in biochemistry, cell and molecular biology.
- English: B1 to B2 (European reference framework for languages).
- Knowledge or desire to train in omics (transcriptomics, proteomics or metabolomics) would be a plus.
- Mastery of cell culture and molecular biology techniques (cloning, PCR).
- Mastery of biochemical techniques for protein expression and associated techniques.
To have successful practice of at least two protein analysis techniques (e.g. Elisa, Western-Blot). To have grasped the constraints and limits of these techniques and to be able to project on other approaches and methodologies.
- Ability to enroll in collective projects and to work in a team.
- Regular communication to adapt your schedule and activities according to constraints.

Job settings

The recruited person will work in the Osteoarticular Bioengineering and Bioimaging (B2OA) Lab which is a mixed research unit, under the supervision of the University Paris Diderot, the CNRS and the National Veterinary School of Maisons-Alfort . The unit is located at 10, avenue de Verdun - Paris 10th.



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Since its creation in 1977, the B2OA Lab has developed a world-renowned expertise for the repair and imaging of skeletal tissues. The activities of the engineer will mainly concern projects related to fundamental and translational aspects of bone repair.

The B2OA is composed of about forty people (researchers, MD / surgeons, dentists, students, engineers) and the agent will be under the responsibility of Hervé PETITE, responsible for the topic "Bone Bioengineering" and Director of the Lab.

Please note that work on animal models is possible.

Contact

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