



Centre Interdisciplinaire de Recherche en Biologie - UMR CNRS 7241 / INSERM
U1050

We offer the opportunity of joining a dynamic, international, and highly skilled team in a renowned research center in Paris. Our team of researchers, post-docs, PhD students and engineers gather talents and skills (biologists and physicists) to understand the molecular rules governing the interplay between gene regulation and genome folding in bacteria. We offer a one-year contract for a junior engineer.

The Role

We are looking for a young biotechnology engineer to strengthen the team. She/he will be participating to a project aiming at revisiting the fundamental principles of gene regulation to integrate the feedback that DNA physics exerts on transcription. She/he will be in charge of a specific aspect of the project that deals with the measure of gene expression in cell populations and at the single cell level. She/he will use synthetic biology methods to design adequate fluorescent reporters and record gene expression with microplate readers, microscopy and flow cytometry. To perform in the role, the candidate should have a significant experience in multiple molecular biology and microbiology techniques. She/he should be able to validate experimental results with suitable statistical methods. She/he should be able to interact efficiently with researchers and other engineers both biologist and physicists. We are seeking for an individual who is well organized, pro-active, detail oriented, enjoys problem solving and able to work in a multi-disciplinary role.

Main Responsibilities

- Develop and optimize protocols for the characterization of bacterial gene expression, in collaboration with researchers and engineers of the team.
- Define project experimental plans, perform experimentation, and ensure in-depth analysis of data.
- Guarantee a good documentation of experiments/results and ensure a high-quality reporting, oral and written.
- Work collaboratively within the team and with other partners of the consortium.
- Engage in good laboratory/documentation practice.
- Participate to the good organization of the laboratory

Experience

- Master's or Engineering degree in the field of molecular biology, biotechnology, microbiology or similar.
- A previous lab experience involving molecular biology and/or microbiology experiments.

- Strong knowledge of usual and advanced molecular biology techniques: DNA/RNA purification and characterization methods, cloning, PCR, q-PCR, sequencing (Sanger), gene editing.
- Very comfortable and happy at the bench.
- Excellent organizational, analytical and systematic troubleshooting skills.
- Excellent communication, reporting and interpersonal skills
- Very positive mindset, highly motivated and pro-active
- Experience in coding (Python) and data analysis tools is desirable, experience in mathematical modeling would be a strong plus.

Contact

Send CV, motivation letter and reference contact(s) to

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