

Engineer Position – Biotechnology & Advanced Modeling for Sustainable Healthcare

We are looking for an **Engineer** to join our interdisciplinary team within the **BioMAS project** (*Biotechnology and Advanced Modeling for Sustainable Healthcare*).

Context: the position is part of the **BioMAS project**, focusing on developing **innovative biotechnologies and bio-inspired mathematical models** to improve disease understanding, biomarker detection, and personalized healthcare. The key objectives include:

- **Understanding disease mechanisms:** Studying cellular and molecular processes underlying chronic diseases (e.g., neurodegeneration, cancer, diabetes).
- **Biomarker detection & monitoring:** Identifying and tracking biomarkers for **diagnostics, treatment, and personalized follow-up**.
- **Advanced modeling for personalized medicine:** Developing predictive models to simulate treatment responses and optimize patient care.
- **Translational innovation & sustainable healthcare:** Bridging fundamental research with clinical applications while promoting patient-centered and environmentally responsible medical solutions.

Main Tasks:

- **Cell & Organoid Culture:** develop and optimize protocols for primary and 3D cell cultures.
- **Molecular & Cellular Analysis:** conduct imaging, RT-qPCR, immunofluorescence, and biomarker screening.
- **Bioengineering & Biosensing:** contribute to **biosensing technologies, microfluidic systems, and bioelectronic devices** for biomedical applications.

Profile & Requirements

Qualifications: Ph.D., Master's, or Engineering degree in **Biomedical Engineering, Biophysical Modeling, Micro- and Nanosystems**, or a related field.

Experience:

- At least **2 years** of experience in **cell culture and 3D organoid models**.
- Experience in **biosensing, microfluidics, or bioelectronics** is highly desirable.
- Familiarity with **microscopy, molecular biology, or biomarker analysis** is a plus.
- Certification for animal experimentation is appreciated.

Skills:

- Strong organizational and teamwork abilities.
- Good command of **English** (French is a plus).

What We Offer

- A collaborative research environment at the intersection of **biomedicine, bioengineering, and advanced modeling**.
- Access to **modern laboratory facilities and interdisciplinary expertise**.
- Opportunities for **professional growth and scientific contributions**.
- **Support in preparing applications for academic positions** at CNRS, the University of Bordeaux, and Bordeaux INP.

Application Process : please send a :

- **CV** detailing relevant experience.
- **Cover letter** explaining your motivation.
- Contact details of **two references**.

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