



Open Postdoc or Engineer Position in Cell Biology

We are delighted to announce an opening for a **Postdoc or Engineer position** in the “Invasion Mechanisms in Angiogenesis and Cancer” (IMAC) Team within the “Institut de Recherche Interdisciplinaire de Grenoble” (IRIG, INSERM UMR1292) in Grenoble, France.

<https://biosante-lab.fr/IMAC>

Project: The metastatic spread of cancer cells, a major cause of cancer-related morbidity, is a complex process involving several steps (metastatic cascade). Unfortunately, *in vitro* models for detecting metastatic cancers and optimizing appropriate treatments are still lacking. However, microfluidic-based models are emerging as powerful alternatives to animal experimentation, as well as promising tools for developing personalized medicine solutions. The objective is to create a **biomimetic model of metastases on chip** for kidney cancer. For this purpose, we will use a microfluidic device to: 1) determine the invasive capacity of tumor cells from patient-derived samples, 2) characterize these potential metastatic cells, 3) test anti-metastatic drugs.

This project aims to address the initial steps of metastasis: the invasion into the extracellular matrix and the intravasation into blood vessels using tumoroids - spheroids made from human patient tumor samples.

The candidate will utilize 3D culture models, imaging and functional assays, molecular biology techniques, and omics approaches to address these fundamental questions.

Candidate requirements: - PhD (or equivalent) in Biology, Biomedical Sciences, or a related field - Highly motivated with a strong interest in cell biology research - Solid experience in cellular and molecular biology techniques - Willingness to work with microfluidic devices - Ability to think critically and work both independently and as a part of a team.

Application procedure: Interested candidates are invited to submit a complete application including: - A detailed CV - A motivation letter - Two letters of recommendation Applications should be sent to odile.filhol-cochet@cea.fr by **September 5th, 2025**.

Shortlisted candidates will be contacted for interviews in early September. The position is expected to begin in Fall 2025 for 18 months.