

# Position Offered: POSTDOCTORAL RESEARCHER

## Project: *Bioprinting of Glioblastoma Models for Molecular Imaging and Treatment with Nano-radiopharmaceuticals (Glio3D)*

**Technological and scientific fields:** 3D bioprinting, Nanotechnology, Medical Imaging

**Location:** Madrid, Madrid, Instituto de Química Médica (IQM) <http://www.iqm.csic.es>

**Research Group/PI:** Nanomedicine & Molecular Imaging group, Fernando Herranz, <https://nanomedmol.com>

### PROJECT SUMMARY

The main objective of Glio3D is the use of 3D bioprinted glioblastoma models for the evaluation of new nano-radiopharmaceuticals in conjunction with biomedical imaging experiments. Glio3D will operate in three scientific fields to achieve this goal: 3D bioprinting, medical imaging, and nanotechnology. The hired individual will receive intensive training in aspects of 3D bioprinting, 3D tumor models, synthesis and radiolabeling of nanomaterials, as well as the use of biomedical imaging in 3D models and preclinical models.

The research will focus on the emerging field of 3D bioprinting, combined with the use of nano-radiopharmaceuticals, thus creating a unique research project in Spain.

### PROFESSIONAL PROFILE

#### Minimum requirements:

- PhD in Biology, Pharmacy or Chemistry
- Experience in the synthesis and application of nanomaterials combined with radioisotopes
- Experience in cell culture

#### Merits to be considered:

- Experience handling preclinical models for medical imaging
- Experience with nanomaterial characterization techniques
- Experience in medical imaging techniques, particularly PET/CT
- Experience in writing scientific articles

### WHAT IS OFFERED

The Glio3D project offers the opportunity to work in a multidisciplinary field for the development of personalized therapies against glioblastoma, using nano-radiopharmaceuticals and 3D bioprinted models as the fundamental basis. This approach will, for the first time, allow for the screening of nanomaterials using 3D models with human cells, contributing to better therapy selection and a reduction in the use of research animals. Within the project framework, the hired individual will receive intensive training in aspects of 3D bioprinting, nano-radiochemistry, and medical imaging, including around 100 credits in courses, as well as research stays.

#### Contract conditions:

Indefinite contract for a Postdoctoral Researcher associated to the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (41.000 € - 52.000 €).

**Start of contract: before 31 December 2024**

### PRINCIPAL INVESTIGATOR CONTACT

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