

OPEN POSITION AT nanoBIG FOR A 4-YEAR DOCTORAL CONTRACT

The Nanomaterials for Bioimaging group of the Universidad Autónoma de Madrid offers a predoctoral research contract for the realization of the Thesis within the framework of the recently awarded project: "INflammation detection and diagnosis by bioorthogonal CLick-chemistry and infrared NAnothermometers (INCLINA)".

The project aims to develop a new generation of luminescent infrared nanosensors and their use in the detection, *in vivo* and *in vitro*, of different inflammatory conditions such as arthritis and Crohn's disease. The process of detecting and diagnosing inflammatory processes would involve the use of "click" chemistry and luminescent nanothermometry. It is a highly interdisciplinary project in which the student will learn to carry out research tasks in the field of nanomaterial synthesis, biofunctionalization, optical characterization, the development of *in vitro* and *in vivo* experiments. To do this, the student will join a research group with more than 20 members with varied profiles (physicists, chemists, biologists, doctors, veterinarians, pharmacists) and with laboratories in the Faculty of Sciences and the Faculty of Medicine of the UAM.

Previous experience in any of these areas will be highly valued: nanotechnology, nanoparticle synthesis, luminescence, *in vitro* and *in vivo* experimentation.

More information about the research group: www.nanoBIG.eu

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Salary: According to the Ministry ((1,450 €/month)

Requisites: Master degree

