



Institut national
de la santé et de la recherche médicale



ENGINEER POSITION

Missions

The Engineer will work within the Center for Structural Biology (CBS), CNRS-INSERM-University of Montpellier, in William Bourguet team in Montpellier. He (she) will participate in research projects focused on the mechanisms involved in the (de)regulation of nuclear receptor signaling. He (she) will implement, within the framework of established protocols, the techniques of molecular biology (cloning), biochemistry (protein purification), biophysical characterization of protein samples and protein crystallization.

Place of work

The Center for Structural Biology (CBS) is a CNRS-INSERM-University of Montpellier joint research unit with a fundamental and multidisciplinary vocation. The general objective of CBS is to conduct cutting-edge research in structural biology, biophysics and bioengineering in order to describe and understand the physico-chemical mechanisms underlying biological processes, from the molecular and cellular level to supramolecular assemblies in the context of living organisms. This knowledge is used to develop new tools for research or to design new diagnostic or therapeutic strategies with applications in human health.

The CBS currently hosts around a hundred people (researchers, assistant professors and professors, engineers, post-docs and PhD students) divided into 12 teams organized into two departments: the Department of Structural Biology and the Department of Biophysics and Bio-Engineering. The diversity of techniques and expertise present on the same site, as well as the solid network of local, national and international collaborations, allow the CBS to carry out increasingly ambitious scientific projects by integrated and multi-scale approaches which cross the barriers between biology, chemistry, physics and mathematics. CBS contributes to training through research by welcoming many interns, doctoral students and post-docs of all nationalities.

Position

Our laboratory has strong interest in studying structure-function relationship of different therapeutic and environmental targets and their interaction with ligands (natural molecules, pharmaceutical drugs and endocrine disruptor compounds). We wish to recruit an Engineer who will participate in projects aimed at structurally studying nuclear receptor macromolecular complexes. The candidate will have to master classical molecular biology techniques (DNA purification, PCR, cloning, mutagenesis, bacterial and mammalian cultures), protein purification techniques (AKTA system), biophysical characterization assays (DLS, CD, SEC-MALS among others), and protein crystallization (using automation). Experience with cryo-EM grid preparation and negative staining would be a plus. The position is to be filled for an initial period of 3 months and could be extended for 18 months. Proficiency in office software (Word, Excel, PowerPoint) and GraphPad or Origin is required.

Qualifications

The desired level of education of the candidate should be a 3-year university degree. In addition, the candidate must justify of at least 2 years of professional experience in preparation and biophysical characterization of protein samples and/or protein crystallization. He (she) must be a motivated and reliable person, have a good ability to adapt to new techniques, the ability to perform meticulous and rigorous work, to work in a team, to analyze and present experimental results and to have a sense of organization.

Contact

The expected date of employment is 1st March 2021. The research team concerned by this recruitment is that of William Bourguet (<http://www.cbs.cnrs.fr/index.php/en/home-equipea5>). The candidate will be supervised by William Bourguet and Albane le Maire and will actively participate in the scientific life of the team. The candidate can submit a curriculum vitae and the contact details of two referees to Albane le Maire email: albane.lemaire@cbs.cnrs.fr