



## **Researcher for Advanced Therapies Medicinal Products**

*KYMOS is a Catalan company with a strong European projection having the headquarters at the Parc Tecnològic del Vallès (Cerdanyola del Vallès) and two subsidiaries: Pharmaprogress in Ancona (Italy) and Prolytic in Frankfurt (Germany). The company is dedicated to the development of high value services for research, development and quality control of synthetic drugs and biologicals. It develops its activities in a quality environment defined by GMP and GLP regulations. Kymos has developed an intense growth in biologics activities focused basically in the development of assays of proteins and glycosaminoglycans for CMC, non-clinical and clinical studies. Kymos has developed an intense growth in biologics activities focused basically in the development of assays of proteins and glycosaminoglycans for CMC, non-clinical and clinical studies.*

*Kymos makes a constant effort to set up state of art techniques and is equipped with last generation instrumentation. Specifically, in biologics, Kymos has implemented a wide range of techniques for protein assays being the most relevant techniques: LC-MS/MS, HPLC and UPLC, CZE, cIEF and icIEF, ELISA, RIA, ECLA, CBA, flow cytometry and label free assays. Prolytic perform assays of RT-qPCR for DNA and RNA.*

### **THE PROJECT:**

We are looking for a researcher for an Advanced Therapies Medicinal Products (ATMP) project. ATMPs are innovative and heterogeneous class of research -driven biopharmaceuticals that are at the forefront of the biotechnological innovation and medicine. The project objective is to develop a new assay platform for ATMP focalized in gen and cell therapies.

Based in the technology available at Kymos and Prolytic, new assays will be developed for the study of the protein capsid of carrier virus (Adenovirus, Adeno-associated virus-AAV, lentivirus, etc.), the DNA carried by the viruses and cell properties.

Assays related to proteins will be done at Kymos and DNA /RNA related activities will be done at Prolytic.

Examples of the assays to be developed are: aggregation, empty capsid vs intact viral particles, charge heterogeneity, transgene expression, characterization of the viral proteins, potency, residual DNA, cell morphology, isoenzyme analysis, mycoplasma, consistence of DNA code, gene copy number, DNA fingerprint, etc. Also, immunogenicity studies related the capsid and DNA coded proteins will be considered.

Depending of the experience in ATMP of the researcher, an initial training of one year will be done in an international recognized center in this field.

This project will be presented to the Tecnospring Industry program of Government of Catalonia in the 2021 call. This program is co-financed by the H2020 Marie Skłodowska-Curie actions of the European Union.

### **Main characteristics of the program:**

Researcher requirements: A PhD and two additional years of full-time research experience, or at least six years of full-time equivalent research experience.

Duration: two years with a strong future projection in the company

#### Modalities:

**Incoming:** 2-year contract in the company.

**Outgoing + return:** 1st year of the project in an international tech-based company or R&D center (located outside Spain), and 2nd year in the company.

Mobility Requirements: Researchers must not have resided or carried out their main activity in the country of their 1st year host organization for more than 12 months in 3 years immediately prior to the deadline for the submission of applications. Exceptions will be made for candidates with justified career breaks.

See web page for more detailed information: <http://catalonia.com/innovate-in-catalonia/tecniospringplus/>

### **RESEARCHER'S PROFILE:**

- Holding a PhD or an experimental Master's degree with enough research experience in biology, biomedicine, pharmaceutical science and technology, biotechnology, biochemistry, medicinal chemistry, organic chemistry and bioengineering.
- Proficiency in English language.
- Ability to work independently and in collaboration with multidisciplinary international teams.



- Open minded and with interest to interact with market players to identify solutions that requires the ATMP market.
- Good knowledge of advanced experimental techniques: LC-MS/MS, HPLC and UPLC, CZE, cIEF and icIEF, ELISA, RIA, ECLA, CBA, flow cytometry and label free assays and RTq-PCR.
- Knowledge in the Advanced Therapies Medicinal Products specifically in gene and cell therapies.
- Knowledge to work in a regulated laboratory environment.
- Good knowledge in writing technical documents.

## **CONTACT**

Interested researchers send the CV to:

Carles Celma  
Scientific Director  
ccelma@kymos.com

Note that the CV of the researchers must be included in the submission of the documentation to the Tecniospring call. The call is open now and will be closed in June, being resolved in October by the Catalanian Government. CV of the candidate plays an important contribution in the positive result of the call of this project.