



Marie -Curie Ph.D. Scholarship Position at Alphalyse

Alphalyse is offering one (1) student a 3-year PhD scholarship, based in Odense, Denmark.

The scholarship is offered as part of a Marie Skłodowska-Curie Innovative Training Network (ITN) project, known as A4B. In total, the project sponsors 15 PhD students at 11 European academic and industrial institutions. The aim is that each of the PhD students will become specialists in the field of therapeutic protein (TP's) production and analysis.

The A4B project aims at

- developing methods for effective removal of TP's with improved purification methods
- developing analytical tools to qualitatively and quantitatively detect the diverse TP's

Each of the 15 PhD students will employ and improve a bioanalytical toolbox. Focus will be on the identity and chemical composition of individual TP's including post translation modifications (PTMs). The students will use high-end electrophoretic, liquid chromatographic (LC), and mass spectrometric (MS) approaches in combination with bioinformatics. The developed methods will be tested for their applicability in improving TP manufacturing, in pharmacokinetics and in protein metabolism.

During the 3 years you will work independently on your own project, but also closely together with the other PhD students assigned to the program. You will participate in training schools and soft skills training sessions and workshops hosted at the different partner institutions, located throughout Europe. In addition, you will follow academic courses at one of the participating academic institutions.

All the PhD students will receive a background education in production, analysis and economic exploitation of therapeutic proteins, as well as training in relevant soft skills. This training will be provided during dedicated Training Schools, soft skills training sessions, and workshops hosted at the different partner institutions.

Job description: Development of Multiple Reaction Monitoring (MRM) / Data-Independent-Acquisition (DIA) for protein quantification

As a PhD student at Alphalyse your main research will focus on the ability to quantify TP's through the entire development phase of a TP. Multiple Reaction Monitoring (MRM) is an LC-MS/MS based approach for direct quantification of defined proteins. In addition, data-independent-acquisition (DIA) based quantification will be used.

One of the key challenges is to be able to perform quantification on material throughout the upstream and downstream process and in different matrices. This will include optimization of the protease digest procedure, analyte enrichment and MS/MS analysis.

Requirements & Application

Applicants must not have spent more than 12 months in Denmark within the 3 years immediately prior to their recruitment.

Applicants must

- have a Master's degree (or equivalent) with outstanding performance
- be in the first four years of their research careers and have not been awarded a doctoral degree
- have excellent English skills
- send a detailed Curriculum Vitae
- send a personal statement describing interests, confirming readiness to move to the host institution and awareness of mobility opportunities within this 3-year PhD program
- provide two academic references

About Alphalyse

Alphalyse is a specialized contract research organization (CRO). We provide high-quality protein analysis services to companies that research, manufacture and develop natural and recombinant proteins. Our skills lie within protein identification, quantification and purity analysis by mass spectrometry and bioinformatics.

From offices in the USA and in Denmark, we service more than 700 customers all over the world including the top-10 biopharmaceutical companies.

Our staff is highly trained, and we use top-of-the line equipment. In addition, we have close cooperation with the academic world. This allows us to focus on state-of-the-art innovation and development, tailored to the customer's needs.

Additional information

Contract type: Full time

First day of employment: Latest 1st of March 2018

Salary: Monthly salary according to EU PhD student agreement for Denmark. Relocation support is given accordingly to EU rules.

Working place: Alphalyse A/S, Odense, Denmark

Spoken language: English

Contact: Thomas Kofoed, CEO, e-mail: kofoed@alphalyse.com

For more info about the program and the 15 positions, visit <http://www.analytics4biologics.eu/>

Last application date: 31. Dec. 2017 by e-mail to kofoed@alphalyse.com