Analytical characterization of monoclonal antibodies

Location: Leiden, Netherlands

Department:

The internship will be performed at Innovation and Discovery Laboratories (I&DL) within the Protein Sciences group of the Pre-Clinical and Clinical Research. The Protein Sciences group is involved in the generation of stable cell lines of PER.C6® cells expressing monoclonal antibodies against infectious diseases, the manufacturing and the characterization (USP, DSP, Analytical Assays and Protein Analytics) of material for proof of concept studies in animal models. The suitable candidate will be working in Protein Analytics which is where the biophysical characterization of the monoclonal antibodies are taking place.

Job Description/project:

The activities in Protein Analytics are focused on the analytical characterization of monoclonal antibodies and the implementation and development of analytical assays. This internship will focus on three major issues:
• Applying analytical assays to comprehensively characterize mAbs and identify process dependent modifications in their biophysical properties;
• Formulation and stability studies to identify the optimal formulation for the mAb drug candidate;
• Addressing limitations in analytical assays – method development.Analytical assays include Chromatography methods (SEC, Reversed Phase, etc), Asymmetric Flow Field-Flow Fractionation, Multi angle and Dynamic Light Scattering, Differential Scanning Calorimetry, Capillary Electrophoresis, Circular Dichroism, Fluorescence and Mass Spectrometry.

A project will be discussed and well-defined by the starting point for the internship. The focus of the project will be dependant on the projects available at the Protein Analytics closer to the starting date.

Minimum Qualifications:

Master/bachelor student in biophysical, biotechnology, chemical technology, (bio)chemical, biomedical, pharmaceutical or similar field
Experience with proteins and/or analytical assays
Independent and pragmatic
Sociable character
40Hrs/week for 6 months or more

Competences
We are looking for a motivated individual who enjoys working in a multidisciplinary team. You express yourself well in English, both verbal and in writing. You are flexible in work and behavior. You enjoy being part of a team, but you are also capable of working independently.

Period for internship is flexible but somewhere between July and October is suitable as a start date.

For more information contact:

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For the perspective from a student at Molecular Biotechnology in Uppsala doing internship spring 2011 contact:
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