Post 1:

**Imperial College:**Research Associate in the Formulation and Delivery of Peptide Therapeutics.

**Salary:** £40,215 - £43,754 per annum

This new post is part of a major new collaboration between the Department of  Chemical Engineering with the Engineering and Physical Sciences Research Council (EPSRC) and the company Eli Lilly. This Prosperity Partnership is worth £11million and will involve over 60 researchers at Imperial College London and University College London.

The post holder will develop formulation and delivery methods in an oral dosage form of therapeutic peptides. This project will investigate issues of chemical and physical stability of peptide therapeutics in the GI tract environment, as well as examining the fundamentals of peptide transport in the GI tract, including development of experimental methods for determining peptide solubility and permeation. Work will include studies of second virial coefficients using self interaction chromatography, protein aggregation studies using dynamic light scattering and a well developing a detailed understanding of peptide solubility and partitioning for enhanced drug delivery. The postholder will also work with a PhD student who will be investigating a parallel work package within this research program.

Candidates should hold a relevant first degree in Engineering or Physical or Pharmaceutical  Sciences and hold or be near completion of a PhD (or equivalent) in Chemical Engineering, Chemistry, Pharmaceutics, Biochemistry, or a related discipline.

Experience in experimental studies on peptide or other related classes of therapeutics substances, especially those designed for oral delivery, is required for this post.  It is expected that liquid chromatographic methods will have a pivotal role in the project, so extensive experience of LC methods is essential.

The post is available immediately.  The appointment is for 3 years, with the possibility of extension.  The post is based in the Department of Chemical Engineering at Imperial College London (South Kensington Campus).

Should you have any queries about the post please contact: Professor Daryl Williams – [d.r.williams@imperial.ac.uk](mailto:d.r.williams@imperial.ac.uk)

Formal applications should be to: <https://www.imperial.ac.uk/jobs/description/ENG01452/research-assistantassociate>

Post 2

**Imperial College:**Research Associate  in the Chromatographic Separation and Purification of Peptide Therapeutics

**Salary:** £40,215 - £43,754 per annum

This new post is part of a major new collaboration between the Department of  Chemical Engineering with the Engineering and Physical Sciences Research Council (EPSRC) and the company Eli Lilly. This Prosperity Partnership is worth £11million and will involve over 60 researchers at Imperial College London and University College London.

The post holder will work on the liquid chromatographic fundamentals of peptide purification and separation as used in downstream processing of biotherapeutics. This project will investigate the essential separation processes associated with hydrophobic interaction chromatography and reversed-phase chromatography for peptide separation/purification.  The experimental data sets generated in this project, will support collaborative modelling efforts at UCL and ICL. The postholder will also work with a PhD student who will be investigating a parallel work package within this research program.

Candidates should hold a relevant first degree in Chemical Engineering or Physical or Pharmaceutical  Sciences and hold or be near completion of a PhD (or equivalent) in Chemical Engineering, Chemistry, Pharmaceutics, Biochemistry, or a related discipline.

Experience in protein or peptide separation using liquid chromatographic techniques such as  hydrophobic interaction chromatography or reversed-phase chromatography or related approaches will be essential. This experience may be industrially or academically based. The post-holder must have well developed hands-on liquid chromatography instrumentation experience with either analytical instrumentation systems such as Agilent, Waters or Shimadzu or with process instrumentation systems such as AKTA.

The post is available immediately.  The appointment is for 2 years, with the possibility of extension.  The post is based in the Department of Chemical Engineering at Imperial College London (South Kensington Campus).

Should you have any queries about the post please contact: Professor Daryl Williams – [d.r.williams@imperial.ac.uk](mailto:d.r.williams@imperial.ac.uk)

Formal applications should be to: <https://www.jobs.ac.uk/job/CCI859/research-associate-in-the-chromatographic-separation-and-purification-of-peptide-therapeutics>