

PhD Studentship

Professor Matthew I. Gibson

PhD project: Polymer/Protein Bioconjugates for Biologic Storage

Supervisor: Professor Matthew Gibson

Funding availability: Fully funded for UK. EU/International contact to discuss

Deadline: Until filled

Project description:

3 linked (but independent) PhD positions are available as part of a €2M ERC grant to professor Gibson to develop the next generation of materials to cryopreservation therapeutic cells and proteins. This position is to use both recombinant protein engineering, alongside modern polymer chemistry to make hybrid materials capable of surviving cold-stress, and retaining the therapeutic function of the protein. We will use non-natural amino acid techniques, and 'click chemistry'. The GibsonGroup has world-leading technology for protein cryopreservation (e.g. Materials Horizons, 2019, 6, 364). We have unique suite of 5 laboratory's including; Cryo-lab, Synthetic Lab, Analytical Lab, Cell Culture, Protein Engineering, and dedicated analytical infrastructure, such as flow cytometer, microscopy, biolayer interferometry and GPC.

Requirements:

Good degree (2.i or 1st class) in biochemistry, chemistry, materials or related subjects. Must be willing to engage in interdisciplinary research as part of a diverse team of chemists and biologists. Funding only available for UK/EU students.

How to apply:

Direct informal enquiries to Professor Gibson, m.i.gibson@warwick.ac.uk . In your email include a 2 page (MAX) CV and your current/predicted grades.

Research group information is available here <http://www.warwick.ac.uk/go/gibsongroup/>

Details on the formal application procedure can be found at <http://www.go.warwick.ac.uk/pgapply>