

PhD Studentship

Professor Matthew I. Gibson

PhD project: Polymeric Materials for Cryopreservation

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 for synthetic polymer chemistry, to design and study unique polymers which have the advanced function of protecting cells and proteins from cold-induced damage. We reviewed this topic (Nature Communications, 2017, 8, 1546) and our recent advanced nanoparticles for ice control can be read here (Materials Horizons, 2020, 7, 1883). You will use controlled radical polymerization, post-polymerization modification and polymerization induced self assembly (PISA). 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 chemistry, materials science 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>