

2 x Postdoctoral Research Associates; 1 Research Associate, 1 PhD - BIOBEADS

The University of Bath seeks excellent candidates to contribute to research on Advanced Manufacturing for Sustainable Biodegradable Microbeads, BIOBEADS. The BIOBEADS team will comprise two postdocs (two thirty six month fixed term postdoctoral positions are offered) and one research associate (suitable for candidates with a 4-year undergraduates degree). Position are available from 01 September 2017.

Closing date:
15 June 2017
Interviews:
27, 28, 30 June

In BIOBEADS we propose to develop, in combination, new manufacturing routes to new products. Manufacturing will be based on membrane emulsification, a low-energy process that can be readily scaled up, or down, and the products will be biodegradable microbeads, microcapsules and microsponges, which share the performance characteristics of existing plastic microsphere products, but which will leave no lasting environmental trace. The project builds on our joint expertise in membrane emulsification for continuous production of tunable droplet sizes, dissolution of cellulose and chitin in green solvents and in characterization of nanoscale and microscale structures to study all aspects of particle formation from precursors, through formation processes, to degradation routes. The BIOBEADS research team will work with industrial partners, including very large manufacturers of personal care products, to ensure that the research conducted can be taken up and used, so having a real, positive impact on the manufacturing of new, more sustainable products.

This interdisciplinary project will be delivered by a multidisciplinary team of Chemical Engineers and Chemists with complementary skills in engineering, membrane emulsification, biobased materials, sustainable ingredients, elucidation of soft material structure, and formulation.

Applications are invited from candidates a degree in Chemistry, Chemical or Materials Engineering, or a related discipline (PhD for the Postdoctoral Research Associates and MChem, MEng or equivalent for the Research Associate) and a desire to work in an interdisciplinary team, delivering impactful research.

Full details, job descriptions and application links (or via the QR codes below):

PDRA based in Chemical Engineering: www.bath.ac.uk/jobs/Vacancy.aspx?ref=CT4917

PDRA based in Chemistry: www.bath.ac.uk/jobs/Vacancy.aspx?ref=SF4905

RA based in Chemistry: www.bath.ac.uk/jobs/Vacancy.aspx?ref=SF4906

There is also a 3 year PhD studentship available: www.findaphd.com/search/ProjectDetails.aspx?PJID=86003

For further information, or informal discussion about the positions, please contact Dr Janet L. Scott at j.l.scott@bath.ac.uk, Prof. Davide Mattia at d.mattia@bath.ac.uk, or Prof. Karen Edler at k.edler@bath.ac.uk.

PDRA Chemical Engineering	PDRA Chemistry	RA Chemistry	PhD Studentship
			

The University of Bath is committed to equality of opportunity. We invite applications from candidates irrespective of their gender, age, disability, ethnicity, sexual orientation or religious beliefs. We particularly encourage applications from under-represented groups, including women.