

PhD Studentship in Synthetic Chemistry: Controlled Molecular-Level Motion

A 3.5 year PhD studentship is available in the group of Dr Beatrice Collins, starting in September 2025.

Project Description

The controlled motion displayed by nature's molecular machines underpins many biological processes and the design and development of fully synthetic systems which mimic such controlled molecular-level motion is an exciting challenge.

The advertised PhD studentship will be focused on the design and development of new fully-synthetic systems that exhibit controlled motion at the molecular level in line with the broader research programme of the [Collins group](#) at the University of Bristol. The research project will involve using modern techniques in organic chemistry, for example transition metal catalysis, biocatalysis, and photochemical processes, to explore new approaches to controlled molecular-level motion.

The successful candidate will receive training in synthetic organic chemistry, including organometallic chemistry, transition metal catalysis and asymmetric synthesis. Furthermore, the student will receive mentoring in the development of scientific communication, problem solving and project management.

Candidate Requirements

Applicants must have obtained, or be about to obtain, a First or Upper Second Class UK first degree, or the equivalent qualifications gained outside the UK, in chemistry or in a related discipline (biochemistry, biogeochemistry, environmental sciences).

How to Apply

Please make an online application for this project at the following page [How to apply | Study at Bristol | University of Bristol](#).

Funding

A full studentship will cover UK tuition fees, a training support fee and a stipend (£19,237p.a. in 2024/25, updated each year) for 3.5 years.

Getting in Contact

We encourage you to make an informal enquiry to Dr Beatrice Collins (bs.lefanucollins@bristol.ac.uk) if you have any queries or would like to discuss project.