

Rotaxane Molecular Machines for Catalysis

PhD Supervisor: Dr Steve Goldup

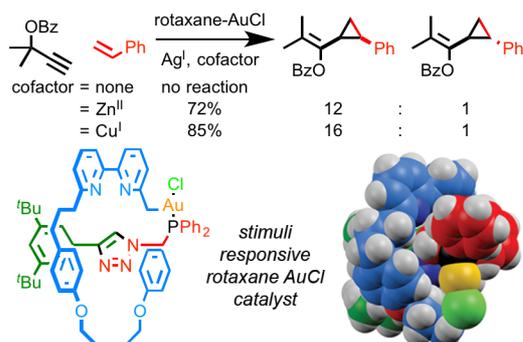
Application Deadline: 5th Jan 2017

Scholarship type: Fees only. The successful candidate will be expected to apply to the CSC to cover their living expenses

The project

Are you an enthusiastic young scientist with excellent work ethic and organisational skills? Do you want to carry out cutting edge synthetic organic chemistry research working at the interface between catalysis and molecular machines? Are you eligible for China Scholarship Council PhD funding scheme (see below)?

If so, there is a PhD position available to start in September 2017 for an outstanding candidate in the group of Dr Steve Goldup at the University of Southampton. The successful candidate will join a research team applying the group's recently developed methodology for the synthesis and operation of smart, switchable catalysts to new reactions and demonstrate their potential to solve complex synthetic problems.



For recent relevant papers and an overview of the field see (all open access):

<http://onlinelibrary.wiley.com/doi/10.1002/anie.201505464/abstract>

<http://pubs.acs.org/doi/abs/10.1021/ja412715m>

<http://pubs.acs.org/doi/abs/10.1021/ja407446c>

<http://pubs.rsc.org/en/Content/ArticleLanding/2014/CC/c3cc47842d>

Training

During your studentship, training will be provided in a range of modern organic and inorganic synthetic techniques and analytical methods in a world leading interdisciplinary research environment. You will also have opportunities to develop your supervision, written and oral communication skills, excellent preparation for a career in academia or industry. Group members are expected to present their published work at national and international conferences and funding is available to support this.

The Goldup Group

The Goldup Group is based in the modern synthetic chemistry laboratories in the School of Chemistry at the University of Southampton. Support for synthetic chemistry is excellent with world class MS, NMR and X-ray facilities, each supported by dedicated specialist staff. On-line resources are first class, with all major journals, SciFinder and Reaxys databases accessible on-line.

Eligibility (see <http://www.csc.edu.cn> for further details)

To be eligible for CSC funding you must:

- Be a citizen and permanent resident of the People's Republic of China at the time of application (applicants from Hong Kong or Taiwan are not eligible);
- Not be currently working abroad;
- Meet the English language requirements for admission to a University of Southampton PhD;

Application Process

In the first instance please contact Dr Goldup directly (s.goldup@soton.ac.uk) and he will guide you through the application process. The Southampton Scholarship covers overseas PhD fees. The successful candidate is expected to apply to the China Scholarship Council to cover their living costs during their study.