



Synthesis of Polycyclic Aromatic Hydrocarbons for Quantum and Electronic Devices

A PhD studentship is available in the group of Iain Wright (School of Chemistry, The University of Edinburgh; [Dr Iain A. Wright | School of Chemistry \(ed.ac.uk\)](#)).

The studentship is fully funded for 42 months by the University of Edinburgh and covers tuition fees and an annual stipend (starting at £19,237 per annum) for a candidate satisfying EPSRC residency criteria. <https://www.ukri.org/councils/esrc/career-and-skills-development/funding-for-postgraduate-training/eligibility-for-studentship-funding/#contents-list>

Project Summary

This project will focus on the synthesis of novel polycyclic aromatic hydrocarbons with rigid three-dimensional structures and systematic variations in molecular surface area and directionality. The interplay between chirality, magnetism and charge transport through these molecules will be studied in the context of technologies including organic field effect transistors (OFETs) and spinFETs.

Enthusiasm for target-driven, multi-step synthetic organic chemistry will be necessary for this project, in which the student will also be trained in a range of electrochemical and spectroscopic methods as required.

In the first instance, the initial application (including cover letter and CV) should be directed to: Dr. Iain A. Wright, School of Chemistry, University of Edinburgh, David Brewster Road, Edinburgh EH9 3FJ, UK. Email: Iain.wright@ed.ac.uk

The position will remain open until filled.

IMPORTANT

Before Submitting your cover letter and CV, please complete the online [School of Chemistry Equality, Diversity and Inclusion Form 2024](#).

The form will automatically generate a unique “Receipt Number” that you MUST include in your cover letter.

Equality and Diversity

The School of Chemistry holds a Silver Athena SWAN award in recognition of our commitment to advance gender equality in higher education. The University is a member of the Race Equality Charter and is a Stonewall Scotland Diversity Champion, actively promoting LGBT equality. The University has a range of initiatives to support a family friendly working environment. See our University Initiatives website for further information. University Initiatives website: <https://www.ed.ac.uk/equality-diversity/help-advice/family-friendly>