MRes in Green Chemistry, Energy and the Environment

One Year Master of Research Degree

**Overview of the course**

Green chemistry serves to promote the design and efficient use of environmentally benign chemicals and chemical processes. This multidisciplinary one-year course features the involvement of several world-class departments at Imperial. Graduates of this course can expect to have all the necessary skills and experience to apply green chemical technologies in either commercial or academic laboratories, the 10-month research project in particular equipping them admirably for PhD studies. Over 95 students from more than 25 countries have attended the course and around 70% have gone on to PhD programmes in the UK or abroad after graduating. Students who are successfully admitted to the MRes course may be chosen to be trained as climate change innovators on the Climate-KIC programme at Imperial (www.climate-kic.org), which takes place in the summer before the course starts in October.

**Chemistry at Imperial**

- **World-renowned** department recognised as 'excellent' by the Higher Education Funding Council for England.
- A dynamic centre of **world-leading** research across a variety of fields
- 60 academic staff, 4 Fellows of the Royal Society, 23 academic visitors, 50 postdoctoral fellows and over 200 postgraduate students. 6 Nobel laureate chemists spent time in the Department.
- Closely linked to **industry** and business start-ups
- Extensive and first-class **facilities**

**Why Green?**

Chemistry is involved in all aspects of life and is fundamental to countless products, industries and technologies. This power also gives it the potential to seriously harm the environment if not properly designed and controlled. Green chemistry therefore strives to achieve the efficient, sustainable use of resources in the safe production of environmentally-benign, non-toxic products. Increasingly stringent legislation and public awareness means no company can overlook their environmental impact, while the problem of fossil fuel dependence looms ever larger. Green chemistry is a relatively new area but one that is of huge importance worldwide.

**Course Details**

- Heavily research-based (70%) programme
- 10 months spent on a cutting-edge research project with two different supervisors (often in different departments)
- Renewable Energy Poster project in collaboration with the Centre for Environmental Policy (CEP) at Imperial College
- Journal clubs provide critical and presentation skills
- 95+ students from 25 countries have studied on course
- Network of former students to help with job searching

**FURTHER INFORMATION:**

Course director: Dr James Wilton-Ely
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- Academic requirement: 2:1 degree or higher in Chemistry, Engineering or related subject
- English requirement: IELTS 6.5 (at least 6.0 in all components). EU students only: TOEFL (iBT)
- All applications must be submitted online
- Departmental Scholarships for UK/EU students, Basil Furneaux Scholarship for IC graduates and College Scholarships for overseas applicants
- Student loans now available for MRes courses

http://www.imperial.ac.uk/chemistry/postgraduate/mres-courses/green-chemistry/