Royal College of Surgeons in Ireland  
*Coláiste Ríoga na Máinleá in Éirinn*

**APPOINTMENTS**

Professor and Head of Department of Pharmaceutical & Medicinal Chemistry

**Information Schedule**

**KEY DATES**

Applications Open: 1st November 2012  
Closing date for applications: Friday, December 7th 2012  
Interviews: January 2013  
Appointment timeline: Mid 2013

Building on our heritage in surgery, we will enhance human health through endeavour, innovation and collaboration in education, research and service.
1 About RCSI

Established in 1784, the Royal College of Surgeons in Ireland (RCSI) is an independent, not-for-profit, health sciences institution with a unique international perspective from its headquarters in Dublin and its presence on three continents. Its original purpose was to train surgeons and set national standards for surgery in Ireland. Today RCSI has a wide portfolio of undergraduate and postgraduate academic and professional courses. Its undergraduate medical school is the largest in Ireland. In Dublin RCSI educates a substantial cohort of international alongside Irish and other EU students. To remain competitive in an international market by providing an internationally recognised and respected medical and health sciences qualifications and careers, RCSI continually invests in elevating educational standards, innovation and facilities.

1.1 Our campuses

More than 60 countries are represented in RCSI’s international student body.

- In Dublin there are over 3,000 students from approximately 50 countries and approximately 800 staff. RCSI is based in the heart of Dublin city – a unique city centre campus in one of Europe’s capital cities. The College has a strong international presence with Schools in Bahrain, Malaysia and Dubai.

- In Bahrain, the College established a medical university, the RCSI Medical University of Bahrain (MUB) in 2004. MUB provides a full spectrum of undergraduate courses in Medicine, Nursing & Midwifery and postgraduate courses in Nursing, Healthcare Ethics & Law and Healthcare Leadership to over 1,000 students annually. Students on these courses come from Bahrain, the Gulf Region and beyond.

- In Dubai RCSI’s Institute of Leadership run postgraduate courses in healthcare management and leadership for experienced healthcare professionals.

- In Malaysia, RCSI has run Penang Medical College in association with University College Dublin, since 1995. This is a ‘twinning’ model where mostly Malaysian medical students complete the first half of their training in Ireland and then return to complete their studies, based on an Irish curriculum, in Penang. By 2013, over 1,000 medical students will have graduated from this programme. From 2011, RCSI extended its long-standing educational involvement with Malaysia when it established an undergraduate medical programme in Kuala Lumpur, as a partner to Perdana University. The first group of Perdana students, studying the RCSI curriculum delivered mainly by RCSI specialist academic staff, commenced in Autumn 2011. Graduates of medicine across all of RCSI’s campuses complete rigorously evaluated programmes that allow for a common degree award of RCSI and the National University of Ireland.
2 RCSI Today

2.1 Undergraduate Education

The medical school in RCSI is one of the world's leading international medical schools. Its curriculum is international as attested to by the fact that it is accredited by medical and educational regulators on three continents - Europe (Ireland), Middle East (Bahrain) and Far East (Malaysia). RCSI runs the traditional European format undergraduate programme of 5 years (6 years if the Foundation Year is included) and also runs Ireland's first graduate entry programme (a four year programme based on the North American medical education model). A bespoke foundation programme (the Medical Commencement Programme) is also provided to high achieving international students who need to further develop their professional English language and/or basic sciences skills.

The College also provides undergraduate courses in pharmacy, physiotherapy and nursing. In Dublin, RCSI provides a three or four year Pharmacy degree (depending on intake qualifications) followed by an obligatory one year internship culminating in an MPharm degree for which RCSI is the national provider in Ireland, i.e. all Pharmacy graduates in Ireland complete their MPharm at RCSI. A similar three or four year programme is provided in Physiotherapy. A four year undergraduate Nursing programme is provided in RCSI Bahrain, with Nurse Bridging Programmes delivered in both Dublin and Bahrain to nurses who have qualified previously through diploma level programmes and wish to progress to complete a degree in nursing.

2.2 Postgraduate Training

RCSI delivers postgraduate education and professional training through the School of Postgraduate Studies and the Institute of Leadership; through its Faculties of Radiology, Dentistry, Nursing, and Sports & Exercise Medicine and through the National Surgical Training Centre. Postgraduate degrees include taught masters programmes in Surgical Training, Medicine, Pharmacy, Physiotherapy, Leadership and Nursing. It also provides research-focused MD and PhD degrees, with many of the PhD students in one of several structured PhD programmes in Biomedical Sciences or Population & Health Services Research. RCSI provides the national training programmes for specialties such as Surgery and Radiology. It also provides opportunities for continuous professional development and for meeting ongoing professional and regulator training needs. RCSI’s unique portfolio of involvement in undergraduate and postgraduate health professional education and training means that aspects pertinent to one part of the professional career can be matched to aspects in another (e.g. targeting early training to clinical and academic needs of later aspects of careers).

2.3 Research Institute

The RCSI Research Institute is one of Ireland’s foremost research centres. RCSI is committed to performing high levels of research activity, to commercialising intellectual property arising from its research, and to developing collaborative links with industry, educational and research institutions both nationally and internationally. Reflecting its unique healthcare focus, its research theme is Translational Health Research: “from bench to bedside to population”. RCSI built Ireland’s first Clinical Research Centre on a hospital campus in 2000, alongside Beaumont Hospital and Connolly Hospital, its main teaching hospitals in Dublin. This supports its translational research focus and provides ready opportunities for clinician-based research studies. The main clusters in RCSI’s Research Strategy are: cancer; neuroscience; respiratory and cardiovascular diseases; infection, inflammation & immunity; bioengineering & regenerative medicine; population health sciences & healthcare delivery.
3 Strategic Plan

RCSI holds a distinctive position in the Irish third-level education landscape, with a number of unique attributes:

- A singular institutional focus on healthcare education and research
- An unrivalled international presence in healthcare education
- A long-standing engagement in life-long learning, as the national agency responsible for surgical and other postgraduate specialty training
- A strong record of innovation in teaching and learning, focused on a high quality student experience
- A distinctively entrepreneurial culture, by virtue of the need to be self-sufficient in an international marketplace, and as a not-for-profit organisation, with minimal dependence on the State

3.1 RCSI’s Mission

“To educate, nurture and discover for the benefit of human health”

“To educate” - The primary function of RCSI is to empower and facilitate its students, to optimise their futures as healthcare professionals and scientists.

"The central task of education is to implant a will and facility for learning; it should produce not learned but learning people" ~Eric Hoffer

“nurture” - RCSI aims to do more for its students than impart knowledge. We aim to care for, encourage, challenge and motivate them to realise their full potential.

“and discover” - RCSI’s aspiration is to deliver impact in research which, coupled with education, is at the core of RCSI activities.

“for the benefit of human health” - The end beneficiary of the College’s work in education and research are people and patients everywhere. The term ‘human health’ is all-encompassing and sufficiently conveys RCSI’s aspiration to advance healthcare provision not just at its bases nationally but also globally through its graduates and its research.

3.2 RCSI’s Vision

“To be recognised internationally as a leading centre for professional education, research and innovation in healthcare”

“recognised internationally” RCSI’s ambition is to be a globally identifiable respected brand by its peers in third level education, its clinical partners and employers of its graduates and prospective students

“a leading centre” RCSI aims to be synonymous with excellence as measured by the strength of student demand, the quality of its graduates and the impact of its research
“for professional education, research and innovation in healthcare” RCSI curricula are outcome focussed. Graduates are ready to perform to the highest professional standards and RCSI research is impactful – achieving high levels of citations by others.

3.3 RCSI’s Values

RCSI’s shared values are reflected in all College policies and procedures, to create an environment of trust and mutual understanding.

The core RCSI values are:

Respect – we commit to transparency, integrity and respect for all persons who engage with RCSI including students, staff, patients and the general public.

Collegiality – we provide a nurturing, social and inclusive community conducive to collaboration and development.

Scholarship – we provide a stimulating and challenging environment that promotes excellence in teaching and learning.

Innovation – we foster a culture of discovery to create research with impact and an entrepreneurial energy, balanced with disciplined financial stewardship to secure our independence.

4 RCSI’s Governance Structure

RCSI is governed by a Council. As it is both an independent degree-awarding institution and a surgical Royal College, two high-level Boards govern these domains of activity in parallel (as depicted below):

- The Medicine & Health Sciences Board (MHSB) is the governing body responsible for all degree-awarding educational activities of RCSI
- The Surgical & Postgraduate Faculties Board (SPFB) is the governing body responsible for the postgraduate training, competence assurance and professional examination activities of RCSI
5 Pharmaceutical & Medicinal Chemistry at RCSI

Chemistry in RCSI goes back a long way - the first Professor of Chemistry, John Apjohn, having been appointed in 1828 (-1850). The Department is responsible for undergraduate Chemistry teaching in the Schools of Pharmacy, Medicine and Physiotherapy as well as postgraduate teaching in the School of Pharmacy and in structured PhD programmes. The staff complement is 5 academic staff, 2 technicians, 2 secretaries, 4 postdoctoral research fellows and there are also ~20 postgraduate students.

The Department is very research active and its research is aligned with the RCSI Research Strategy (currently under revision) in interdisciplinary translational research. It currently has research programmes in the following areas:

- Peptide-based antibiotic and anticancer agents, nanomedicines and drug delivery systems.
- Synthesis and pharmacological evaluation of metal-based anti-cancer agents.
- New inhibitors of cyclooxygenase as anti-inflammatory agents.
- Drugs from natural sources.

The Department is part of The Centre for Synthesis and Chemical Biology, http://www.ucd.ie/cscb/, a major research collaboration in the chemical sciences between RCSI, University College Dublin (UCD) and Trinity College Dublin (TCD) and funded under the Irish Government Programme for Research in 3rd Level Institutions, Cycle 3. It is also a key participant with UCD, TCD and University College Cork (UCC) in the Science Foundation Ireland (SFI) Strategic Research Cluster ‘The Irish Drug Delivery Network’: http://www.ucd.ie/iddn/. Members of the Department publish in leading international journals (see selected publications in Section 8). They are also highly successful in securing competitive national and EU funding (e.g. in the SFI Research Frontiers Programme 2011 the Department received 3 major awards) and in commercialising IP generated by their research, e.g. one member of staff has formed a ‘spin-off’ company, another has licensed technology to a pharmaceutical company and 10 patents have been filed. The Department has a large number of research collaborations. These are with other research groups in RCSI and with groups at: the Institute of Biophysics, Brno; the CNR Institute of Crystallography, Bari; the Universities of Sydney, Debrecen, Ljubljana, Florence, Naples (Federico II), Bologna, Siena, Genoa, Limerick, Dublin City, Galway; UCD, TCD, UCC and the Institute of Technology, Tallaght.

The Department is involved in undergraduate teaching programmes in the Schools of Pharmacy (Years 1-4), Medicine (Foundation Year) and Physiotherapy (Foundation Year). It also contributes modules to the MSc in Industrial Pharmaceutical Sciences and to the Structured PhD Programmes on ‘Diagnostics & Therapeutics for Human Disease’, ‘Bioanalysis & Therapeutics’ and ‘Drug Discovery & Delivery’.

For further information on the Department of Pharmaceutical & Medicinal Chemistry see: http://www.rcsi.ie/index.jsp?p=248&n=265

6 Job Description

Job Title: Professor and Head of Department of Pharmaceutical & Medicinal Chemistry

Location: Department of Pharmaceutical & Medicinal Chemistry, RCSI, 123 St Stephen’s Green

Reporting to: Dean of the Faculty of Medicine & Health Sciences

Timeframe: This is a full-time, permanent appointment
6.1 Objective

The principal objectives of the post are to lead the continued development of teaching and research programmes in Pharmaceutical and Medicinal Chemistry in RCSI.

6.2 Principal Duties and Responsibilities

- Lead and participate in the development and delivery of existing and new teaching programmes and their evaluation for undergraduate and postgraduate students of Pharmacy and Medicine.
- Ensure that teaching programmes and their evaluation comply with RCSI as well as professional and educational regulator quality standards.
- Develop and implement a research programme aligned with the RCSI Research Strategy in any area of Pharmaceutical and/or Medicinal Chemistry.
- Assume responsibility as Head of the Department of Pharmaceutical & Medicinal Chemistry.
- Play a leading role in the affairs of the Faculty of Medicine & Health Sciences and its constituent Schools through participation in College decision making and governance.
- Implement policies and decisions as determined by the Dean of the Faculty of Medicine and Health Sciences.
- Assume responsibility for the preparation and management of annual budgets.
- Assume responsibility for the preparation of Departmental reports as required.
- Hold regular minuted Departmental meetings and attend Board and Committee meetings as required.
- Support the work of colleagues involved in similar courses and research in RCSI's international campuses.
- Assume responsibility for the implementation and compliance of statutory legislation as well as rules and requirements in furtherance of own and general staff welfare and safety.
- Undergo programmes of training and development as may be required.
- Represent the best interest of the Department and RCSI at all times.
- Perform such other related duties as may be required.

6.3 Person Specification

The successful candidate should possess/demonstrate the following:

- A PhD degree or equivalent.
- A proven track record, over a minimum of 5 years, of teaching in a third-level institution. Previous experience of teaching students of Pharmacy and/or Medicine would be an advantage.
- A track record of international level research and grant-aided funding in any area of Pharmaceutical and/or Medicinal Chemistry.
- Knowledge of the international Pharmaceutical and Medicinal Chemistry agenda in higher education.
- Excellent managerial and inter-personal skills.
• The ability to develop and sustain strategic relationships with internal and external stakeholders
• The drive, energy and vision to promote change in a challenging and dynamic environment
• Achievement oriented and results focussed

Note: this Job Description may be subject to change to reflect the evolving requirements of RCSI in delivering its Noble Purpose and Vision

6.4 The Process

Interview and presentation

Shortlisted candidates will be invited for a formal competence – based interview and a panel based presentation at our main campus at RCSI Dublin.

6.5 Particulars of Post

➢ The post is a permanent whole time position. The appointee to the post reports to the Dean of the Faculty of Medicine and Health Sciences and will discharge such duties as are assigned to him/her.
➢ The current remuneration is as detailed below. • Salary: Professor: €122,736 - €153,298.

7 Application Procedure

Candidates are asked to submit applications incorporating the following:
➢ Curriculum vitae including full contact details
➢ Description of current and proposed research
➢ Description of teaching experience
➢ Names and contact details of 2 professional referees
➢ A list of publications
➢ A list of research grants

Applications should be sent to: recruitment@rcsi.ie

Closing date for receipt of applications: Friday 7th December 2012.

Informal enquiries can be made through Mr Gary Brady, Human Resources Department on +353-1-4022341 (email: garybrady@rcsi.ie).


46. Ruthenium(III) readily abstracts NO from L-arginine, the physiological precursor to NO, in the presence of H$_2$O$_2$. A remarkably simple model system for NO synthases, C. J. Marmion, T. Murphy, K.B. Nolan, Chem. Commun., 2001, 1870-1871.
