

Cardiovascular Medicine PhD/MD/MSc by Research



Cardiovascular Sciences is an area of strength within the College of Medical and Dental Sciences, as evidenced by the fact that 100% of our RAE 2008 submission in the area of Cardiovascular Medicine was considered internationally competitive or above, with 40% judged internationally excellent or world leading. Our diverse areas of strength range from platelet function to heart failure management in the community.

[Study here and find out why the University of Birmingham was awarded The Times and The Sunday Times University of the Year 2013-14](http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)
(<http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx>)

Course fact file

Type of Course: Doctoral research

Study Options: Full time, part time

Duration: PhD – 3 years full-time, 6 years part-time; MSc by Research – 1 year full-time, 2 years part-time; MD - 2 years minimum part-time

Start date: Research degrees may start at any time of the year, though for most this will be September each year

Contact

College of Medical and Dental Sciences Graduate School: mds-gradschool@contacts.bham.ac.uk (<mailto:mds-gradschool@contacts.bham.ac.uk>)

You can contact us on +44 (0)121 414 5005

Follow us on Twitter (http://twitter.com/unibirm_MDS)

Details

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Fees and funding

Standard fees ([/postgraduate/dr-fees/tuition.aspx](#)) apply, although in some projects a bench fee is also payable

Learn more about **fees and funding**

([/postgraduate/dr-fees/index.aspx](#))

Scholarships and studentships

A number of studentships are available each year, funded by major sponsors including the British Heart Foundation (BHF), the Medical Research Council (MRC) and the Wellcome Trust, as well as national and local charities. UK/EU students should contact the School directly for further information. For general scholarship enquiries email sfo@contacts.bham.ac.uk (<mailto:sfo@contacts.bham.ac.uk>).

International students can often gain funding through overseas research scholarships, Commonwealth scholarships or their home government.

Entry requirements

Learn more about **entry requirements** ([/postgraduate/requirements-dr/step1.aspx](#)).

International students

We accept a range of qualifications from different countries – learn more about **international entry requirements** ([/postgraduate/requirements-dr/step1.aspx](#)).

Standard English language requirements ([/postgraduate/requirements-pgt/international/index.aspx](#)) apply

How to apply

When clicking on the Apply Now button you will be directed to an application specifically designed for the programme you wish to apply for where you will create an account with the University application system and submit your application and supporting documents online. Further information regarding how to apply online can be found on the **How to apply pages** (<http://www.birmingham.ac.uk/students/courses/postgraduate/apply-pg/index.aspx>).

Apply now (<https://pga.bham.ac.uk/lpages/MDS043.htm>)

Research interests of staff

Before submitting an application to the University, you will need to identify potential supervisors in your desired field of research in order that you can indicate this in your application. There will be a delay in processing your application if this information is not provided. To do this, you can browse the "research interests" tab on the course finder pages which identifies research leads by subject area.

Alternatively you can:

- Search for an advertised postgraduate research opportunity via our [Doctoral Researchers search engine](http://www.birmingham.ac.uk/postgraduate/courses/findaphd.aspx) (<http://www.birmingham.ac.uk/postgraduate/courses/findaphd.aspx>)
- Browse the school websites. Most schools provide a list of research active staff and their research interests on their website
- **Molecular mechanisms underlying platelet activation in health and disease.**
Contact: [Professor Steve Watson](#) ([/staff/profiles/cem/CVRS/Watson-Steve.aspx](#))
- **Peripheral, arterial and venous diseases; evaluating standard/endoscopic surgical techniques in treatment of chronic venous insufficiency; role of arterial wall motion abnormalities in the pathogenesis of atherosclerosis/aneurismal disease; development of complications in patients undergoing major vascular surgery.**
Contact: [Professor Andrew Bradbury](#) ([/staff/profiles/cem/CVRS/bradbury-andrew.aspx](#))
- **Mechanisms of angiogenesis in ischaemia; cardiovascular adaptations to low temperature.**
Contact: [Dr Stuart Egginton](#) ([/staff/profiles/cem/CVRS/Egginton-Stuart.aspx](#))
- **Monitoring microcirculatory disturbances associated with inflammatory conditions (ischaemia-reperfusion (I/R) injury).**
Contact: [Dr Neena Kalia](#) ([/staff/profiles/cem/CVRS/Kalia-Neena.aspx](#))
- **Regulation of the circulation in normal human subjects and in patient groups.**
Contact: [Professor Janice Marshall](#) ([/staff/profiles/cem/CVRS/marshall-janice.aspx](#))
- **Adhesive and mechanical properties of circulating blood cells.**
Contact: Professor Gerard Nash
- **In vitro modelling of the cellular pathology of atherosclerosis.**
Contact: [Dr Edward Rainger](#) ([/staff/profiles/cem/CVRS/Rainger-Ed.aspx](#))
- **Atrial fibrillation (epidemiology, pathophysiology, thromboprophylaxis, psychological morbidity, etc), hypertension, heart failure and clinical/experimental thromboembolism.**
Contact: [Professor Gregory Lip](#) ([/staff/profiles/cem/CVRS/Lip-Gregory.aspx](#))
- **Mechanisms underlying cardioprotection following myocardial ischaemia reperfusion injury.**
Contact: [Dr Melanie Madhani](#) ([/staff/profiles/cem/CVRS/Madhani-Melanie.aspx](#))
- **Molecular mechanisms of heart disease as a basis for translational approach to cardiology**
Contact: [Professor Paul Kirchoff](#) ([/staff/profiles/cem/CVRS/Kirchhof-Paulus.aspx](#))
- **Mechanisms of heart disease; translational research towards mechanism-based therapies of cardiovascular diseases**
Contact: [Dr Larissa Fabritz](#) ([/staff/profiles/cem/CVRS/Fabritz-Larissa.aspx](#))
- **Molecular genetics of patients with platelet bleeding and low platelet counts (thrombocytopenia)**
Contact: [Dr Neil Morgan](#) ([/staff/profiles/cem/CVRS/morgan-neil.aspx](#))
- **Molecular regulation of angiogenic factors and cognate receptors**
Contact: [Dr Peter Hewett](#) ([/staff/profiles/cem/CVRS/hewett-peter.aspx](#))
- **Stroke and bleeding risk in atrial fibrillation**
Contact: [Dr Deirdre Lane](#) ([/staff/profiles/cem/CVRS/Lane-Deirdre.aspx](#))
- **Regulation of skeletal muscle blood flow**
Contact: [Dr Clare Ray](#) ([/staff/profiles/cem/CVRS/Ray-Clare.aspx](#))
- **Chemoreceptor mechanisms and role of purine neurotransmitters; neuromodulators in control of cardiovascular/respiratory systems**
Contact: [Dr Theresa Thomas](#) ([/staff/profiles/cem/CVRS/Thomas-Teresa.aspx](#))

Employability

Following graduation, Postgraduate Researchers in the College MDS gain employment in a variety of areas though with a majority continuing in research, mostly in Academia but also in the Health, Pharmaceutical, and Biotechnology sectors. Others pursue careers in Education, Publishing, Intellectual Property Protection, Technology Innovation, Business, and more besides.

[Find out more about where our postgraduate students go](#) ([/Documents/college-mds/courses/postgraduate/employability-info/employabilityinfo-cem-jan2014.pdf](#))

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