

## **VISION**

Robust reproducible science is the foundation of biomedical discovery. The MSc in Experimental Physiology programme focuses on teaching practical laboratory techniques and fundamental biomedical research skills. A key feature of this programme is that all students experience one-on-one teaching within research groups that are supervised by internationally renowned investigators. This unique learning environment allows students to perfect fundamental laboratory techniques and apply them to current research questions in an active world-class research environment.

### **COURSE DESCRIPTION**

Core laboratory-based modules (PCR/QPCR, Western blot, tissue culture, immunohistochemistry) are complemented by modules that cover fundamental research skills, online research skills, research ethics, scientific communication, biostatistics, and research integrity. In addition, students will keep up to date with cutting edge advances in biomedical research via attendance at translational medicine workshops and journal clubs, and weekly research seminars hosted by the Conway Institute. Final optional modules include several advanced modules on cutting edge technologies (flow cytometry, introduction to "Omics", and applied proteomics), science communication, scientific writing, data analysis and tech transfer. These modules involve a mixture of small group teaching, online activities, and seminars.

Email: physiology@ucd.ie

More information on this course: www.ucd.ie/medicine/studywithus/graduate/ biomedicalsciences/mscinexperimentalphysiology

Apply for this course: www.ucd.ie/registry/prospectivestudents/admissions/graduateapplicants/applying

# **COURSE DETAILS**

Major code X846

**Duration** 12 months

Schedule Full-Time

**Next intake** September annually

### WHO SHOULD TAKE THIS COURSE?

Science graduates with a BSc in physiology or a related biomedical discipline who are:

- · Interested in a research or technical career in industry
- Interested in molecular/cellular physiology and it's application to translational research
- Interested in expanding their analytical and critical research skills
- Thinking about doing a PhD in any biomedical discipline and looking for a strong foundation course

#### **AFTER GRADUATION**

Upon completion of this programme students will be equipped with the skills necessary to pursue a biomedical research or laboratory-based career in academia or industry. This programme provides invaluable exposure to the research environment and is ideal preparation for those considering a further research degree (75% of our graduates have obtained PhD positions and are thriving in the research environment).

Transferable skills in online research, data analysis, communication, scientific writing, and innovation can also open up a diverse array of opportunities outside of the laboratory.

#### **FEES**

www.ucd.ie/fees