

## **PhD aims**

The structure of the PhD course is designed to produce graduates with rigorous research and analytical skills, who are exceptionally well-equipped to go onto Postdoctoral research, or employment in industry and the public service.

The PhD course provides:

- a period of sustained in-depth study of a specific topic;
- an environment that encourages the student's originality and creativity in their research;
- skills to enable the student to critically examine the background literature relevant to their specific research area;
- the opportunity to develop skills in making and testing hypotheses, in developing new theories, and in planning and conducting experiments; developing practical research skills and learn new state of the art techniques used in biomedical research.
- the opportunity to expand the student's knowledge of their research area, including its theoretical foundations and the specific techniques used to study it;
- the opportunity to gain knowledge of the broader field of biomedical research;
- an environment in which to develop skills in written work, oral presentation and publishing the results of their research in high-profile scientific journals, through constructive feedback of written work and oral presentations.

## **PhD learning outcomes**

At the end of their PhD course, students should:

- have a thorough knowledge of the literature and a comprehensive understanding of scientific methods and techniques applicable to their own research;
- be able to demonstrate originality in the application of knowledge, together with a practical understanding of how research and enquiry are used to create and interpret knowledge in their field;
- have developed the ability to critically evaluate current research and research techniques and methodologies;
- have self-direction and originality in tackling and solving problems;
- be able to act autonomously in the planning and implementation of research; and
- have gained oral presentation and scientific writing skills.