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About us

Training programme

The ambitions of our two training programmes are to develop a generation of scientists for whom the principles of physics, chemistry, imaging,molecular biology, bioengineering, physiology and data analysis form an intellectual continuum.

Our work is designed to develop an understanding of the processes of image formation, image-enhancing agents, tracers and probes, and probe targeting. We build skills in image and data analysis and computational modelling, as well as developing laboratory skills and expertise in generic scientific methodologies. Our students gain a knowledge of cellular and molecular biology, bio-systems, normal physiology and disease processes, with an awareness of topical research in these areas. We believe that scientists with this broad skill-base will push the boundaries of the imaging disciplines and contribute to future breakthroughs in biomedical sciences.

Cross-disciplinary

(/schools/biosciences/index.aspx) Since it is inherently cross-disciplinary, all our project work is supervised by scientists from different but complementary subject areas. Students work with physical scientists (**chemists (/schools/chemistry/people/index.aspx)** , **engineers (/schools/eece/people/index.aspx)** , **physicists (/schools/physics/people/index.aspx)**) with expertise in imaging techniques, biomedical materials, molecular probe and drug design, with **computer scientists (http://www.cs.bham.ac.uk/)** and **mathematicians (/schools/mathematics/people/index.aspx)** for the complex modelling and analysis of image-derived and other biomedical data, and with life scientists drawn from the Schools of **Biosciences (/schools/biosciences/index.aspx)** , **Medicine (http://www.medicine.bham.ac.uk/about/index.shtml)** and **Dentistry (/schools/dentistry/staff/index.aspx)** .

Training environment

Central to our philosophy is the provision of a training environment which supports team work and the development of long-lasting personal networks and professional contacts that will persist throughout the students' future research careers. Typical activities include:

- Developing exhibits for use in the **Birmingham Science Museum, Thinktank (http://www.thinktank.ac/landing.asp?section=24&sectionTitle=Thinktank)**
- Preparation of press releases (led by the University Press Office)
- Team-building courses at the **Raymond Priestley Outdoor Activity Centre (http://www.sport.bham.ac.uk/raymondpriestley/)** in Coniston in the Lake District
- Buddy scheme

Contact us

Contact us at **sci-phy@contacts.bham.ac.uk (mailto:sci-phy@contacts.bham.ac.uk)**

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