Institute of Chemical Biology

SME BUSINESS CLUB

160

Research Groups

100

PhD Students

15

Departments

50

External Partners

ONE

Networked Community

Since its inception in 2003 the Institute of Chemical Biology Centre for Doctoral Training (ICB CDT) has established itself as a world-leading hub in molecular science innovation. The ICB CDT supports one of the largest pan academic-industrial research and training chemical biology communities in the world spanning (i) over 160 research groups from 15 Departments and Centres at Imperial College London with an active research portfolio of >£100M (ii) leading players from the pharmaceutical, healthcare, med-tech, personal care, agri-science, biotech, nutri-science and instrumentation industries and (iii) a blossoming community of Small and Medium Enterprises.

UNIQUE TECHNOLOGIES : UNIQUE SOLUTIONS

The ICB CDT brings together tools and technologies that are wholly unique to Imperial College and not available in concert anywhere else in the world. The ICB CDT community gathers together leaders in the fields of single cell analysis, label-free imaging, membrane biophysics, single molecule imaging/conductance, surfactant science, artificial intelligence, drug discovery, machine learning, additive manufacturing, biosensors, drug delivery, membrane engineering, microfluidics, chemical probes, chemical genetics, imaging, synthesis, materials science, robotics, spectroscopy, nanotechnology, nutri-science, plant science, high-throughput diagnostics and multi-scale modelling.

Institute of Chemical Biology
CENTRE FOR DOCTORAL TRAINING

EPSRC
Pioneering research and skills

Imperial College London

SME BUSINESS CLUB BENEFITS

BUILDING ON SHARED GOALS AND ASPIRATIONS

- Access to a world class PhD talent pipeline: from PhD co-supervision through to fully funded internships and placement schemes
- Early access to a cutting-edge molecular technology pipeline that can directly address bottlenecks in your R&D portfolio
- A networked science environment that can help you establish and make new business contacts
- Access to commercial opportunities and vital information on industry needs: from SME elevator pitch events through to large scale technology showcases
- A vibrant calendar of invite-only networking events and innovation workshops: from hackathons through to research colloquia, breakfast meetings and tech-foresight events
- Opportunities to be an expert speaker at ICB CDT events
- Facilitation of access to world class co-location spaces, training programmes and state of the art capital equipment and testing facilities

We know the importance of networking and understand the research, infrastructure and skills challenges faced by SMEs.

Through our dedicated SME Business Club we aim to support your needs.

Membership is FREE.

SME BUSINESS CLUB BENEFITS

BUILDING ON SHARED GOALS AND ASPIRATIONS

- Establishing collaborative R&D projects and partnerships: linking your SME with over 160 research groups in a world-leading university and our large scale industry partners
- Marketing and PR opportunities through our regular newsletter
- Writing a discussion piece for the ICB CDT webpage once a year
- Free display of your advertising materials at ICB CDT events
- Collaboration with an integrated community of 160 world-leading research groups across Imperial College and over 50 external partners working
- Participation in co-located autonomous multi-group research teams brought together with professional project management and milestone driven objectives

Interested businesses can apply online **for FREE** by clicking on the logo below which will take you through to the application form

Institute of Chemical Biology
SME BUSINESS CLUB

NETWORKED SCIENCE DRIVING INNOVATION

Working closely with our partners, the ICB CDT has spearheaded the development and application of novel molecular tools and techniques for the study of biology and biomedical understanding along with their translation into product discovery and instrumentation pipelines.

These technologies have the potential to transform the healthcare, agri-science, personal care and consumer product sectors. Many of the most exciting research challenges facing these industries require an approach that marries expertise from different disciplines. By pooling knowledge that transcends traditional subject-based research it is possible to make rapid progress in challenging areas of science and technology.

By bring together researchers, entrepreneurs, SMEs and large industry the ICB CDT has shaped the national landscape by linking key stakeholders with groups modifying and translating technologies ready for biological analysis as well as with groups developing wholly novel approaches not yet ready for deployment. A vibrant ecosystem for making new contacts.

14

years experience in the training of multidisciplinary PhD students and collaboration with industry

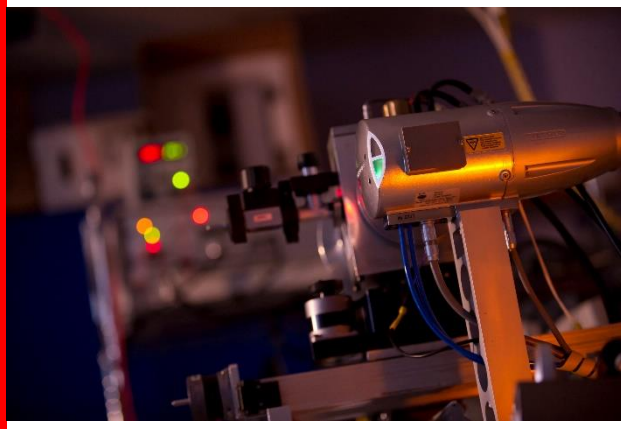
TRANSLATION TO INDUSTRY

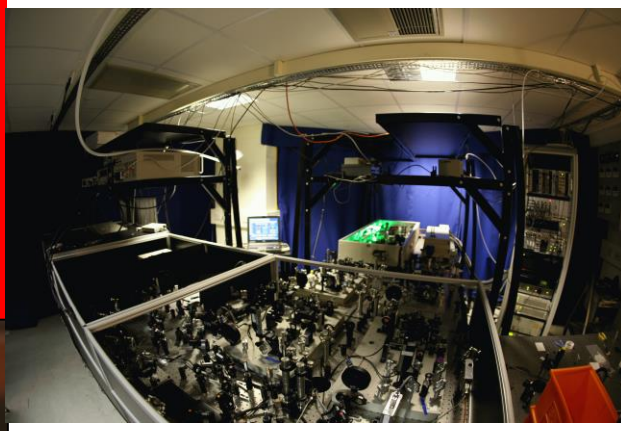
A TWO-WAY EXCHANGE OF UNDERSTANDING

Successful translational research means transfer of knowledge and understanding in two directions. This is true whether the translation is to industry or to the clinic.

Making translational research happen is less about passing information across a divide than creating an environment in which multiple researchers understand and benefit from each others' expertise and experience. It is also critical to develop and support research teams and individuals who combine this knowledge in a multidisciplinary way.

We encourage our partners to take an active role in the supervision and training of our CDT students and in the creation and evolution of our joint research initiatives. The ICB CDT helps to create environments where ICB CDT researchers and our industrial partners can meet, discuss, swap ideas and be supported in developing translational research programmes.





The ICB CDT has nurtured and challenged over

>200

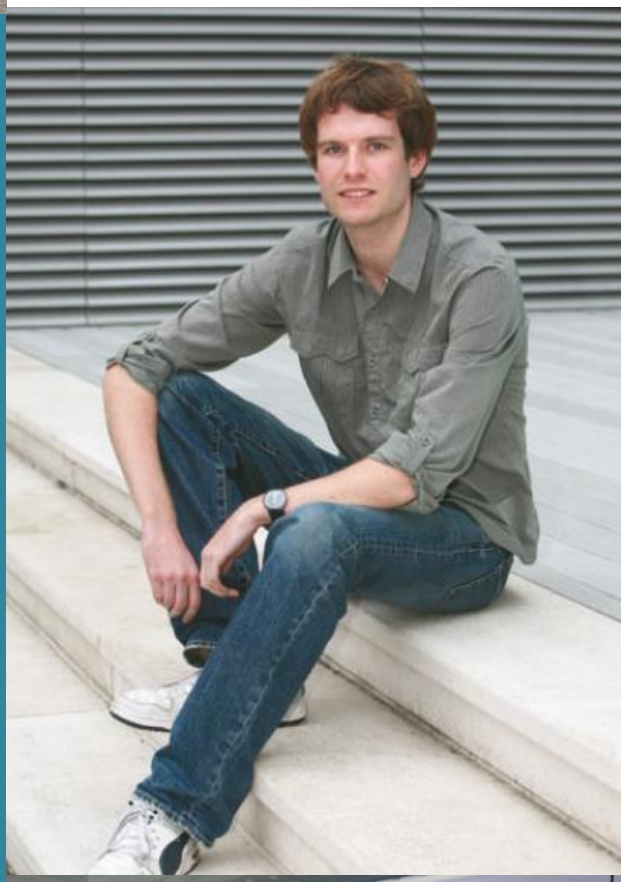
PhD students so that they can become world leaders in academia, SMEs and industry

MULTIDISCIPLINARY EDUCATION

ATTRACTING THE BEST AND MOST MOTIVATED

We attract exceptionally bright and talented physical sciences graduates and over four years educate them in the skills and arts of multidisciplinary research through a combination of taught courses which introduces them to the biomolecular sciences, and research which provides them with hands on experience of the technical and personal skills they will need to become leaders in chemical biology.

The pervasive presence of our doctoral students has carried the experience of multidisciplinary research into postdoctoral, academic, SMEs and industrial research communities stimulating new avenues of research.



PUSHING THE TRAINING FURTHER

EMPOWERING OUR PhD STUDENTS

For the ICB CDT there is a training agenda above and beyond the research compass that has to do with developing transferable skills, representing science to the wider world and promoting a professional networking culture.

At the ICB CDT we have been proactive in this agenda and developed a suite of bespoke transferable skills courses that PhD students can integrate into their research programmes. Our residential courses cover teamwork and networking, communication and public awareness plus decision making, leadership and careers guidance.

We have also pioneered entrepreneurship education for our PhD cohort and provide them with the opportunity to exploit the commercial potential of ideas they have developed. This programme enables students to bid for £20k to capitalise upon intellectual property they have developed and has led to numerous student spinout vehicles.

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STUDENTS EMERGE WITH:

An established network of peers to draw upon

Experience of working in SMEs and large-scale academic and industrial multi-disciplinary initiatives

Experience of knowledge transfer and technology translation

ABOVE: The **£150M Molecular Sciences Research Hub at the new Imperial College White City Campus** is a new facility that will house 800 researchers. It aims to deliver world-class education, research and translation activities, and foster partnerships with global stakeholders from business, industry, higher education and the NHS.

A HUB FOR NATIONAL AND INTERNATIONAL TIES

The translational and collaborative framework of the ICB CDT is designed to provide an interface between groups developing novel molecular tools and technologies with new ends user in academia, industry and the medical sector and vice versa. This "connect and develop" strategy is supported by links to a national and international community of researchers who are keen to exploit the potential offered by multidisciplinary collaborations. These links, forged by both students, supervisors and our external partners are supported by integration of the ICB CDT with translational research initiatives including the:

- £150M Molecular Sciences Research Hub
- £5M Advanced Hackspace at the Invention Rooms

This innovation pipeline has enabled the ICB CDT to establish an exceptional track record of technology development: from concept to industrial or clinical evaluation during the lifetime of a single PhD project.

FOR FURTHER INFORMATION PLEASE CONTACT:

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