CENTRE FOR DOCTORAL TRAINING IN
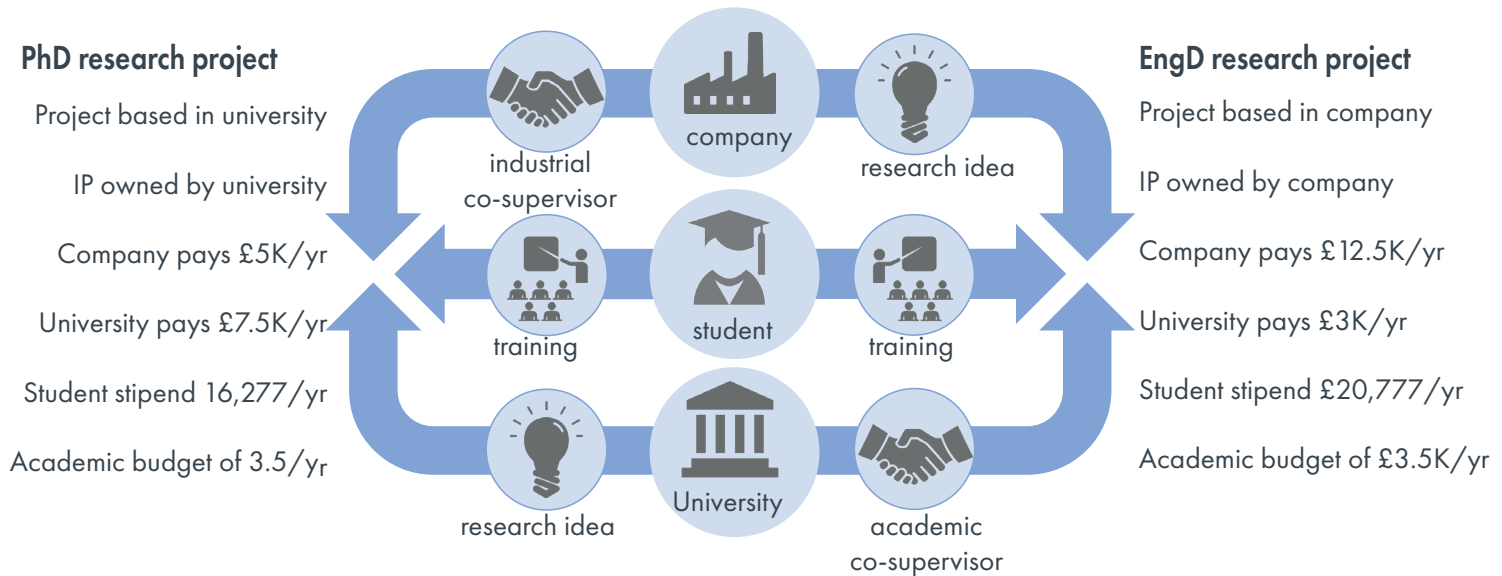# APPLIED PHOTONICS
industry inspired: imaging | sensing | analysis

Partnership Model

PhD research project

Project based in university

IP owned by university

Company pays £5K/yr

University pays £7.5K/yr

Student stipend 16,277/yr

Academic budget of 3.5/yr

industrial co-supervisor — company — research idea

training — student — training

research idea — University — academic co-supervisor

EngD research project

Project based in company

IP owned by company

Company pays £12.5K/yr

University pays £3K/yr

Student stipend £20,777/yr

Academic budget of £3.5K/yr

Partners

Contact us to propose a project and join our growing partnership.

ARI · AMETHYST RESEARCH INCORPORATED · OXFORD LASERS · rofin · eDF ENERGY · Adaptix · CASCADE TECHNOLOGIES

THALES · Gooch & Housego ENABLING PHOTONIC TECHNOLOGIES · optos · wideblue making technology happen

LEONARDO · [dstl] · Canon CANON MEDICAL RESEARCH EUROPE LTD. · GSS Gas Sensing Solutions

pureLiFi · RENISHAW apply innovation · COHERENT · Lightpoint MEDICAL · POWERLASE

AWE · Chromacity · BT · PowerPhotonic · ST life.augmented

Fraunhofer UK · UNIK LASERS · Holoxica Holographic 3D Solutions · NHS Greater Glasgow and Clyde · Malvern Panalytical

optocap · M-SOLV Limited · TAYLOR HOBSON · Rolls-Royce · NPL National Physical Laboratory

BAE SYSTEMS · NANOCO TECHNOLOGIES · Science & Technology Facilities Council · mtc Manufacturing Technology Centre · OPTOSCRIBE Pioneering 3D photonic integrated circuits

HERIOT WATT UNIVERSITY · University of Glasgow · THE UNIVERSITY of EDINBURGH · University of Strathclyde Glasgow · University of Dundee · University of St Andrews

EngD · EPSRC Engineering and Physical Sciences Research Council

www.cdtphotonics.hw.ac.uk
cdtphotonics@hw.ac.uk
@cdtap

Training Programme

We provide a comprehensive 4-year training programme suitable for graduates of MPhys, MEng and related programmes.

Year 1 Semester 1 is spent at the University of St Andrews, and students normally move to Glasgow for Semester 2. After completing the technical taught courses (120 credits), students typically relocate to be near their sponsoring company's site, remaining there for the rest of the programme.

To develop business acumen, three accredited MBA courses are delivered to our students over three long weekends in years 2 and 3 (60 credits)

Professional skills courses are distributed across the programme, and their content is profiled according to each year of study.

Image courtesy of Helen Towrie/STFC
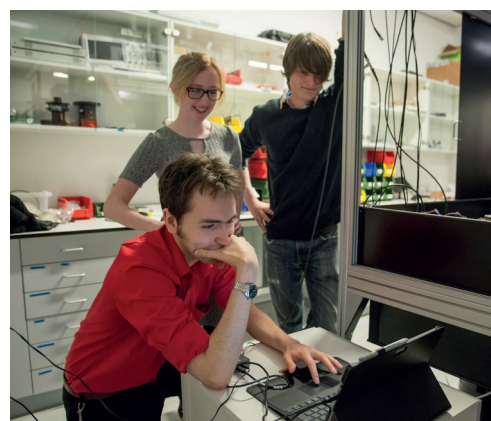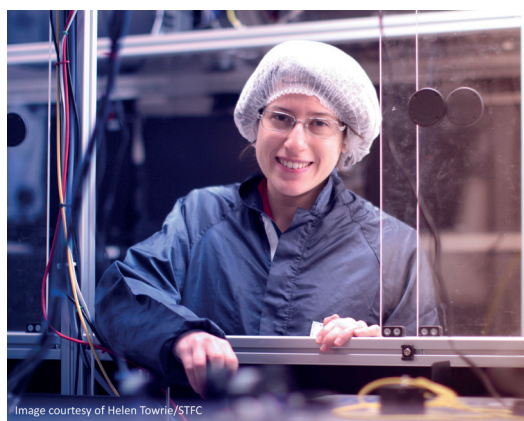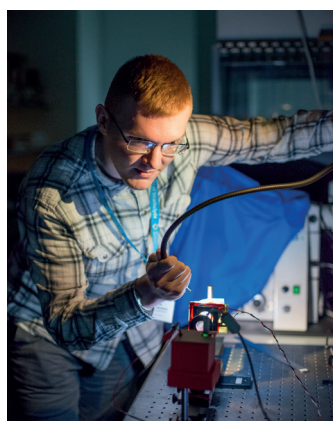
Taught Courses

Our taught course programme combines the expertise of six universities, providing students with muti-disciplinary skills covering photonics techniques and business modules.

Year 1	Year 2	Year 3
Semester One Core and elective technical courses at the University of St Andrews	**Semester One** MBA module: Financial Decision Making	
Semester Two Core and elective technical courses at the universities of Strathclyde, Glasgow, Edinburgh and Heriot-Watt University	**Semester Two** MBA module: Delivering Successful Projects	**Semester Two** MBA module: Strategic Marketing

Professional Skills

Our professional skills programme is tailor-made for our students to help them develop into well-rounded industry professionals.

Year 1	Year 2	Year 3	Year 4
Academic Communication 1: Literature Review	Academic Communication 2: Effective Conference Presentations	Academic Communication 3: Writing a Journal Paper	Academic Communication 4: Thesis Preparation & Writing
Equality & Diversity Awareness	Introduction to Six Sigma	Systematic Problem Solving	Proposal Writing and Entrepreneurship
Responsible Research & Innovation	Rapid Prototyping	Digital Outreach Training	
Computational Tools	Risk Management	Outreach Workshop & Event	
Mental Health, Wellbeing and Managing Stress	Intellectual Property	Systems Engineering for Instrumentation	