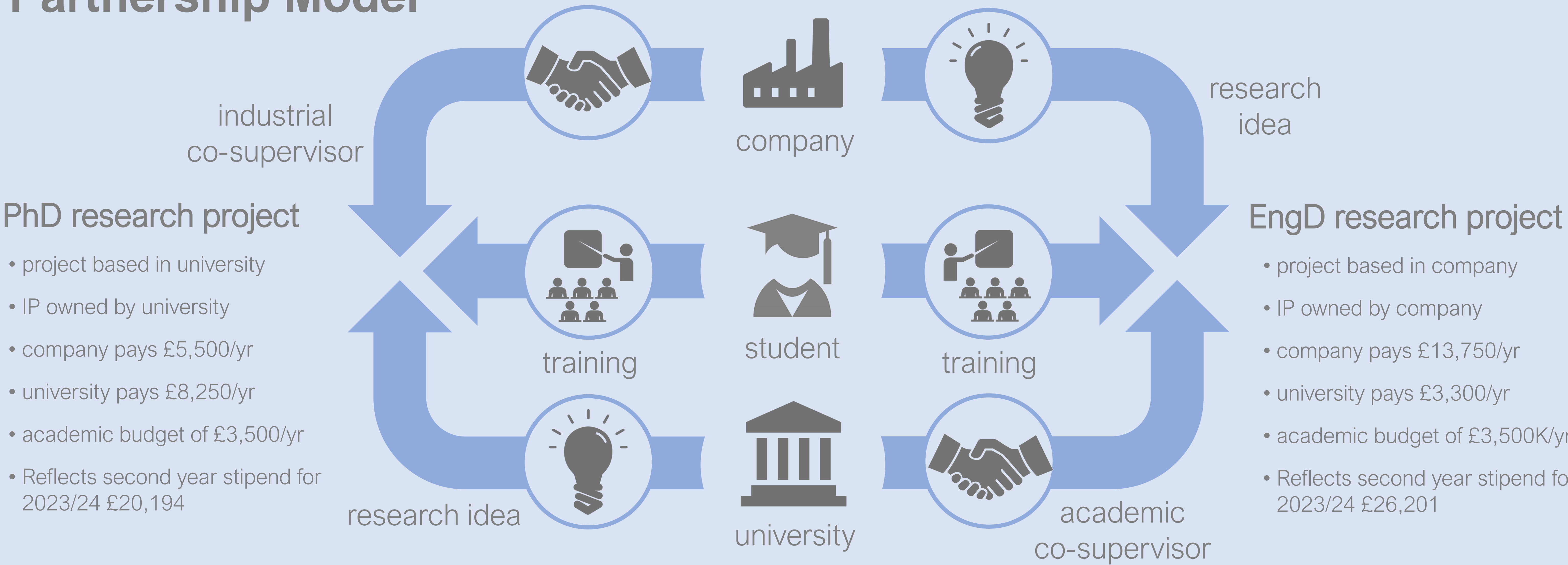




Centre for Doctoral Training in Applied Photonics

industrially inspired: imaging | sensing | analysis

Partnership Model



Partners & Research



Training Programme

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

Full-time technical courses occupy the first eight months of Year 1, leading to 120 credits (60 ECTS).

Semester 1 is spent in St. Andrews, and students normally move to Glasgow for Semester 2.

After completing the technical taught courses students relocate to near their sponsoring company's site, remaining there for the rest of the programme.

Business courses delivered over three long weekends in Years 2 and 3 provide a further 60 credits (ECTS).

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

Key Course [Credits-Year-Semester-Location]
Credits for accredited training shown in brackets.
* Distance learning format available.

YEAR 1	Academic Communication 1: Writing a Literature Review
	Equality and Diversity Awareness
	Responsible Research and Innovation
	Computing Tools (Labview; Matlab; Comsol)
YEAR 2	Academic Communication 2: Effective Conference Presentations
	Introduction to Six Sigma
	Rapid Prototyping
	Risk Management
	Intellectual Property
YEAR 3	Academic Communication 3: Writing a Journal Paper
	Systematic Problem Solving
	Digital Outreach Training
	Outreach Workshop and Event
	Systems Engineering for Instrumentation
YEAR 4	Academic Communication 4: Thesis Preparation and Writing
	Proposal Writing and Entrepreneurship

CORE (80)	Optical Imaging Concepts [15-Y1-S1-STA]
	Photonic Sensors from Devices to Systems [15-Y1-S2-HWU]
	Concepts in Signal and Image Analysis [15-Y1-S1-STR]
	Photonic Lab [15-Y1-S1-STA]
ELECTIVE (min. 40)	Systems Engineering Lab and Group Project [20-Y1-S2-STR]
	Lasers [20-Y1-S1-STA]*
	Micro- and Nano-technology [20-Y1-S2-GLA]
	Biophysics [5-Y1-S2-HWU]
	Zemax [5-Y1-S2-HWU]
	Nanophotonics [15-Y1-S1-STA]
	Advanced Data Analysis [15-Y1-S1-STA]
	Advanced Digital Signal Processing [15-Y1-S2-STR]
	Case study review paper [5-Y1-S2-WEB]*
	Fibre Optics [5-Y1-S2-HWU]
MBA (60)	Optical Metrology [5-Y1-S2-WEB]*
	Other modules available on a case-by-case basis*
	Accounting [20-Y2-S1-HWU]
	Project Management [20-Y2-S2-HWU]
	Marketing [20-Y3-S2-HWU]

Contacts

CDT Support Team
www.cdtphotonics.hw.ac.uk
0131 451 8245
cdtphotonics@hw.ac.uk

Centre Director
Prof. Derryck Reid
Heriot-Watt University
0131 451 3652
D.T.Reid@hw.ac.uk

Centre Deputy Director
Dr Bill MacPherson
Heriot-Watt University
w.n.macpherson@hw.ac.uk

Centre Deputy Director
Prof. Steve Marshall
University of Strathclyde
0141 548 2199
stephen.marshall@strath.ac.uk

University of Edinburgh
Dr. Philip Hands
0131 650 7473
Philip.Hands@ed.ac.uk

University of Dundee
Dr. Keith Wilcox
01382 386988
k.g.wilcox@dundee.ac.uk

University of Strathclyde
Dr. Gordon Flockhart
0141 548 4267
gordon.flockhart@strath.ac.uk

University of St Andrews
Prof. Graham Turnbull
01334 467330
gat@st-andrews.ac.uk

University of Glasgow
Prof. Martin Lavery
0141 330 4799
Martin.Lavery@glasgow.ac.uk

