

# Proposal for New Degree Programme Stage 1

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# **OVERVIEW OF PROGRAMME**

Grey text has been added to provide guidance. Please delete as you add your own text, remove italics, and change the font colour to black.

ABOUT THE PROGRAMME		
Title of programme	PhD in Data Science and Artificial Ir	ntelligence
Intended Award	PhD	
Alternative awards	PGDip, PGCert	
School	School of Informatics	
Programme Director	Amos Storkey	
Programme start dates	01/09/2019	
SCQF level of highest award	12	
Total credit value of programme (for highest award)	540	
Partner institution(s) if any		
Mode of delivery	On campus	x
(Please ✓ those which apply to this programme)	Online	
	Blended learning	
	FT	X

	PT	
	Intermittent	
Expected length of programme	FT	3 years
	PT	
	Intermittent	

#### Description of the programme and its structure (maximum 150 words)

The PhD in Data Science and Artificial Intelligence is a 3 year programme of intensive research, unifying the fields of Data Science and Artificial Intelligence, covering machine learning, statistics, artificial intelligence, computer vision, agent-based systems, specch and language processing amongst many others. The PhD programme has a research focus, but also involves direct engagement with company and public sector partners, training in responsible research and innovation, public engagement and transferable skills.

#### Career, employability and opportunities for continuing professional development.

Data Science and Artificial intelligence are impacting every area of society, and there are few professions where the skills of students from this programme are not needed. Students with the skills this programme provides are in exceptionally high demand, and we expect graduates from this programme to go on to be leaders in the field. Graduating students enter many careers from academic and company research posts, startups, data-scientist and AI roles in companies, or research posts in applications of AI in other fields.

# **BUSINESS CASE**

This section should be used to outline the business case for the proposed programme. Before completing this section market research should have been undertaken.

STRATEGIC PLANNING, RECRUITMENT & C	OMPETITOR ANALYSIS			
Programme Title	PhD in Data Science and Artificial Intelliger	nce		
Programme Proposer	Amos Storkey			
Strategic Planning	Data Science and AI are key to the whole University as a whole. It has the backing of	· · · · · · · · · · · · · · · · · · ·		•
Recruitment  Please provide a detailed commentary on your marketing and recruitment strategy.	This PhD programme continues on from the Recruitment will involve advertising across stage shortlist, assessment and interview page 2.	s many channels, including channels t		
Competitor Analysis  A competitor analysis report provides a better understanding of the marketplace and competition, from the going rate for tuition fees to the unique selling points and marketing strategies of competitor programmes.	There a no UK competitors who can touch proposed programme is likely to be the ne their fees.  Competitors in the US include Stanford, Be	arest competitor, but it not clear yet	. As they do not yet have the pr	
Competitor Fees	Institution	Programme	Fe	es
Provide the fee structure (in British pounds) of three competitors, preferably			Home	International

those mentioned in the competitor analysis. These may be UK or International	MIT	PhD in Computer Science	\$49,892	\$49,892
competitors.	University of Washington	PhD in Computer Science	\$18,852	\$32,760
	UCL	PhD in Computer Science	£9,000?	£21,000?

FEES AND COSTING			
Programme fees	Home-Scotland / EU		£4,260
Fees are expressed per academic year in British pounds. For PGT programmes, a Programme Costing Template will also be	Home-RUK		£4,260
required for Fee Strategy Group.	Overseas		£21,000
Fees for each new PGT programme are sent has developed a Programme Costing Temple where it sits within its market. The Fees Costhe spreadsheet attached to the right.	ate to give FSG insight into the anticipated p	rofitability of a programme and	FSGProgrammeCost ingTemplateFinalHS
Additional Programme Costs (PGR only)  Additional costs to the student should be no students and should reflect the special additional costs.		-	nd above the basic provision that should be available to all or £200 should be noted on a separate row.
Ite	m	Cost	% of Total
Travel		7500	100
Computing Costs		12500	100

Total:	100%

ANTICIPATED AND PROJECTED ENRO	DLMENTS		
What are the anticipated and projected en	rolments over the next three years?		
	Year 1	Year 2	Year 3
Home	12	12	12
International	3	3	3
Supporting Research	None is needed this is a continuation of an existing precruiting these numbers.	programme (PhD in Data Science) that is re	ceiving 250 applications a year, and already
What market research has been planned or completed to support the predicted student numbers?			

PLANNING AND RESOURCES	
New Courses	No new courses needed.
Facilities and Equipment	Facilities are either standard (lecture halls), have been budgeted for (desk space) or are budgeted via the CDT (compute resource).
Staff	There are 85 potential supervisors for this programme.
Resource Sharing	Resources are shared where applicable (e.g. the Responsible Research training).

#### **COLLABORATIVE PROGRAMMES**

Additional information is required for new programmes that are collaborations with external institutions or organisations which will result in a joint award and/or where taught components are shared. International partnerships must have a Memorandum of Understanding (MoU) in place before the programme can be approved by College.

Should the proposal be progressed to Stage 2 a draft Memorandum of Agreement (MoA) will need to accompany the submission.

Separate guidance is available for the development of collaborative programmes.

http://www.ed.ac.uk/governance-strategic-planning/collaborative-activity/guidance-templates

N/A

# CONSULTATION AND APPROVAL

Programme Title:	PhD Data Science and Artificial Intelligence		
Programme Proposer:	Amos Storkey		
STAGE 1: CONSULTATION			
Please confirm consultation with relevant stakeholders has	taken place.		
Stakeholder		Yes	NA
School Director of Professional Services			
School Academic Administration Staff			
Information Services (including Academic Support Libraria	ns)		
Student Body (SSLC/Student representatives)			
Partner School Staff (E.G. Joint Programmes/shared course	es etc)		
Employers			
Industry and Professional Bodies		$\boxtimes$	
External Consultation			
Please note any other consultation			
Please provide a brief comment on the consultation process			
Extensive as part of a CDT bid.			
Please provide a brief comment on the consultation process	with External consulta	ants	
~40 external partners. Advisory board of high profile	academic and comp	any advisors.	

# STAGE 2: SCHOOL BOARD OF STUDIES REVIEW AND APPROVAL

Confirmation of approval of the proposal at the School Board of Studies should	be entered below.	
Date of BoS:		
Convener Name:		
Comment and Approval (BoS Minute):		
Please provide either a link to the minutes of the Board or a copy of the releva	nt text from the minutes.	
STAGE 3: HEAD OF SCHOOL REVIEW AND APPROVAL		
Head of School:		
Please print name		
Comment and Approval:		
Signature:		
STAGE 4: COLLEGE CURRICULUM APPROVAL BOARD REVIEW AND OUTCOMI	:	
Date of CCAB:		
Convener Name:		
Stage 1 Outcome (please select as appropriate)		
Permission to proceed to Stage 2		
Permission to proceed to Stage 2 with conditions		
Proposal rejected with recommendations		

Proposal rejected	
Comment:	

# **Document Control**

	April 2018
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