

# Proposal for New Degree Programme Stage 1

# Contents

## 1 OVERVIEW OF PROGRAMME

ABOUT THE PROGRAMME

## 2 BUSINESS CASE

STRATEGIC PLANNING, RECRUITMENT & COMPETITOR ANALYSIS

FEES AND COSTING

**ANTICIPATED AND PROJECTED ENROLMENTS** 

**PLANNING AND RESOURCES** 

**COLLABORATIVE PROGRAMMES** 

## 3 CONSULTATION AND APPROVAL

**STAGE 1: CONSULTATION** 

STAGE 2: SCHOOL BOARD OF STUDIES REVIEW AND APPROVAL

STAGE 3: HEAD OF SCHOOL REVIEW AND APPROVAL

STAGE 4: COLLEGE CURRICULUM APPROVAL BOARD REVIEW AND OUTCOME

# **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	PhD in Data Science and Artificial Intelligence	
Intended Award	PhD		
Alternative awards	MPhil		
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	Online		
programme)	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, speech 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 & COMPETITOR ANALYSIS			
Programme Title	PhD in Data Science and Artificial Intelligence		
Programme Proposer	Amos Storkey		
Strategic Planning			
	Data Science and AI are key to the whole University plan. This PhD programme is vital to Informatics, to the Bayes Centre and to the University as a whole. It has the backing of companies to the tune of 3.1M cash contribution from company partners.		
Recruitment  Please provide a detailed commentary on your marketing and recruitment strategy.	This PhD programme continues on from the PhD in Data Science, which had as many applications as the rest of Informatics combined. Recruitment will involve advertising across many channels, including channels that promote inclusivity, and recruitment involves a three stage shortlist, assessment and interview programme.		

#### There a no UK competitors who can touch this programme: it continues from an established programme for the last 5 years. UCL's **Competitor Analysis** proposed programme is likely to be the nearest competitor, but it not clear yet. As they do not yet have the programme, we cannot state A competitor analysis report provides a their fees. better understanding of the marketplace and competition, from the going rate for Competitors in the US include Stanford, Berkeley, MIT, University of Washington, Montreal etc. tuition fees to the unique selling points and marketing strategies of competitor programmes. **Competitor Fees** Programme Institution Fees Provide the fee structure (in British International Home pounds) of three competitors, preferably 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 PhD in Computer Science £9,000? £21,000? UCL

FEES AND COSTING		
Programme fees	Home-Scotland / EU	£4,327
Fees are expressed per academic year in		
British pounds. For PGT programmes, a Programme Costing Template will also be required for Fee Strategy Group.	Home-RUK	£4,327
	Overseas	£22,200
Fees for each new PGT programme are sent by College to the Fee Strategy Group (FSG) for review and approval. The FSG has developed a Programme Costing Template to give FSG insight into the anticipated profitability of a programme and where it sits within its market. The Fees Costings template, and guidance from FSG on filling out the template is included in the spreadsheet attached to the right.		PSGrogenmeCost inglenplateFinal+S

## Additional Programme Costs (PGR only)

Additional costs to the student should be noted and justified in the table below. These should consist of items that are over and above the basic provision that should be available to all students and should reflect the special additional costs associated with the specific programme of study. Individual items over £200 should be noted on a separate row.

ltem	Cost	% of Total
Travel	7500	100
Computing Costs	12500	100
Total:		100%

ANTICIPATED AND PROJECTED ENROLMENTS  What are the anticipated and projected enrolments over the next three years?			
	Year 1 Year 2 Year 3		
Home	8	9	9
International	1	1	1
Supporting Research  What market research has been planned or completed to support the predicted student numbers?	None is needed this is a continuation of an existing programme (PhD in Data Science) that is receiving 250 applications a year, and already recruiting these 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	$\boxtimes$	
School Academic Administration Staff	$\boxtimes$	
Information Services (including Academic Support Librarians)	$\boxtimes$	
Student Body (SSLC/Student representatives)	$\boxtimes$	
Partner School Staff (E.G. Joint Programmes/shared courses etc)		
Employers	$\boxtimes$	
Industry and Professional Bodies	$\boxtimes$	
External Consultation	$\boxtimes$	
Please note any other consultation		

Please provide a brief comment on the consultation process

Extensive, originally as part of a CDT bid.	

Please provide a brief comment on the consultation process with External consultants

~40 external partners. Advisory board of high profile academic and company 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 relevant 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 OUTCOME	
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**

Date approved:	Amendments:	Date for next review:
Start date:		April 2018
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