



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 Biomedical Artificial Intelligence <i>(e.g. EngD in Offshore Renewable Energy)</i>	
Intended Award	PhD	
Alternative awards	<i>(Insert name e.g. PG Dip, PG Cert)</i>	
School	Informatics	
Programme Director	Prof Guido Sanguinetti	
Programme start dates	01/09/2020	
SCQF level of highest award		
Total credit value of programme <i>(for highest award)</i>		
Partner institution(s) if any		
Mode of delivery <i>(Please ✓ those which apply to this programme)</i>	On campus	x
	Online	
	Blended learning	

	FT	x
	PT	
	Intermittent	
Expected length of programme	FT	3yrs
	PT	
	Intermittent	
Description of the programme and its structure (maximum 150 words)		
<p>This new PhD programme is being proposed in the context of the bid for a UKRI Centre for Doctoral Training in Biomedical Artificial Intelligence. Students admitted onto the PhD will necessarily have completed successfully the MSc by Research year (being proposed in parallel). The structure of the PhD programme will follow the consolidated best practice in UoE; distinctive features of this programme is the interdisciplinary nature, so that all students will be jointly supervised by one Sol supervisor and one supervisor from the other UoE participating institutes. <i>Written to be accessible to a lay audience, to be used for marketing purposes. Identify the programme's distinctive features and unique selling points.</i></p>		
Career, employability and opportunities for continuing professional development.		
<p>Students completing the CDT PhD programme in Biomedical Artificial Intelligence will face a highly favourable job market, with multiple career opportunities for subsequent employment both in academia, industry and third sector. Biomedical AI is expected to be a sector of particular growth in the near to medium term, as highlighted in several governmental reports (Industrial Strategy, Life Sciences Industrial Strategy, etc) as well as major industrial players (Association of British Pharma Industry, Glaxo-Smith-Klein strategic report 2018). According to the EU patent office, the Med-Tech sector filed the largest number of new patents in 2017 than any sector. Anecdotal evidence from colleagues working in the field suggests a buoyant job market in both public and private sector with a lively start-up ecosystem. All of these facts point to a high employability for any graduates of the programme, with excellent subsequent career options.</p>		

Written in language which is accessible to a lay audience, to be used for marketing purposes. Should include examples of potential career destinations and how the skills and abilities gained through the programme contribute to career development.(Maximum 100 words)


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 Biomedical Artificial Intelligence
Programme Proposer	Prof Guido Sanguinetti
Strategic Planning	<p>This new programme is being proposed in the context of the bid for a UKRI CDT in Biomedical Artificial Intelligence, currently under review. The strategic relevance of this programme is very high: bringing together an academic faculty spanning all three Colleges, if successful, this bid will provide a major opportunity for interdisciplinary collaboration, greatly strengthening the (already very solid) research links between Informatics and medicine and biology, and bringing new links to social scientists studying the impact of technology on society. <i>Briefly state how the new programme will contribute to School, College and/or University Strategic Plans.</i></p> <ul style="list-style-type: none"> • <i>In the context of existing programmes, what are your expectations for this programme?</i>

<p>Recruitment</p> <p><i>Please provide a detailed commentary on your marketing and recruitment strategy.</i></p>	<p>Recruitment for this PhD programme will be carried out using strategies already tested in our existing CDTs, involving a mixture of online advertising on specialist sites, mailing lists and, crucially, relying on our extensive network of scientific contacts and our high visibility in the sector.</p>			
<p>Competitor Analysis</p> <p><i>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.</i></p>	<p>The proposed programme is part of an ongoing CDT competition. The marketplace will thus depend on its outcome. Successful outline proposals in this area in the first round were made by Glasgow, Manchester and (to a lesser extent) Oxford and Imperial. Compared to these potential competitors, our programme has the advantage of a more marked informatics leadership, as well as a stronger focus on fundamental science (albeit still including a substantial element of translational applications). All programmes will offer fully funded 4-year PhD or 1+3 MSc+PhD placements, so that fee structures are not relevant here.</p>			
<p>Competitor Fees</p> <p><i>Provide the fee structure (in British pounds) of three competitors, preferably those mentioned in the competitor analysis. These may be UK or International competitors.</i></p>	Institution	Programme	Fees	
			Home	International

FEES AND COSTING		
<p>Programme fees</p> <p><i>Fees are expressed per academic year in British pounds. For PGT programmes, a</i></p>	Home-Scotland / EU	
	Home-RUK	

<i>Programme Costing Template will also be required for Fee Strategy Group.</i>	Overseas	
<p>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.</p>		 FSGProgrammeCostingTemplateFinalHS
Additional Programme Costs (PGR only) <i>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.</i>		
Item	Cost	% of Total
<i>Add rows as necessary</i>		
Total:		100%

ANTICIPATED AND PROJECTED ENROLMENTS			
<i>What are the anticipated and projected enrolments over the next three years?</i>			
	Year 1	Year 2	Year 3
Home	8	8	8
International	4	4	4
Supporting Research	These numbers represent the prospective intake from the CDT bid; these are partly the results of funder constraints (at least 10 students per year), additional student numbers were offered due to industrial support and the strong interest in the area.		

What market research has been planned or completed to support the predicted student numbers?	
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PLANNING AND RESOURCES	
New Courses	NAHave new courses been approved by School Board of Studies and if not what is the projected timeline for approval?
Facilities and Equipment	<p>NAHave all estates issues been considered e.g. lab, lecture theatre, teaching studio capacity, research space, PGR study space/desk space</p> <ul style="list-style-type: none"> • Does the programme have any special resource requirements in terms of equipment (existing and/or new) and facilities? If so, what plans are in place to manage these or make them available? • Will any specialised equipment or texts be required by students?
Staff	As part of the bid preparation, we have assembled a large faculty of potential PhD supervisors from the School and the other participating institutes.
Resource Sharing	<ul style="list-style-type: none"> • Does the programme share courses with other programmes in the School, College or University, and are there opportunities for sharing resources developed for this programme elsewhere? • Have you consulted Course Organisers regarding students on this proposed programme taking their courses?

COLLABORATIVE PROGRAMMES
<p>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.</p> <p>Should the proposal be progressed to Stage 2 a draft Memorandum of Agreement (MoA) will need to accompany the submission.</p> <p>Separate guidance is available for the development of collaborative programmes.</p> <p>http://www.ed.ac.uk/governance-strategic-planning/collaborative-activity/guidance-templates</p>

- *Please provide brief details of partnership below, including confirmation of which institution will be the Administering University, the fee structure and confirmation of any external funding (if available).*

CONSULTATION AND APPROVAL

Programme Title:	PhD in Biomedical Artificial intelligence
Programme Proposer:	Prof Guido Sanguinetti

STAGE 1: CONSULTATION

Please confirm consultation with relevant stakeholders has taken place.

Stakeholder	Yes	NA
School Director of Professional Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>
School Academic Administration Staff	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Information Services (including Academic Support Librarians)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Student Body (SSLC/Student representatives)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Partner School Staff (E.G. Joint Programmes/shared courses etc)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Employers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Industry and Professional Bodies	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External Consultation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Please note any other consultation		

Please provide a brief comment on the consultation process

HoS/ Directors of Institutes involved in the bid were consulted during the preparation. Industrial/ external stakeholders were also consulted through a co-creation workshop.

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

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): <i>Please provide either a link to the minutes of the Board or a copy of the relevant text from the minutes.</i>

STAGE 3: HEAD OF SCHOOL REVIEW AND APPROVAL

Head of School: <i>Please print name</i>
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	<input type="checkbox"/>
Permission to proceed to Stage 2 with conditions	<input type="checkbox"/>

Proposal rejected with recommendations	<input type="checkbox"/>
Proposal rejected	<input type="checkbox"/>
Comment:	

Document Control

Date approved: Start date:	Amendments:	Date for next review: April 2018
Contact name & role: Matt Elliot	Department: College Academic Affairs	Email: Matt.Elliot@ed.ac.uk
If you require this document in an alternative format please email: deanga@exseed.ed.ac.uk		

