



Ysgoloriaethau Sgiliau Economi Gwybodaeth
Knowledge Economy Skills Scholarships

KESS 2 Project Application Form 2019 – 20

(Submissions to be returned to KESS Office, Room 101, Nanhyfer Work Zone, Swansea University,
Bay Campus, SA1 8EN or via email to m.p.mcmahon@swansea.ac.uk)

FOR KESS CENTRAL OFFICE USE ONLY	KESS Proposal Reference Number	BU _____
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Section A – Basic Project Details

1). Type of Scholarship

Please tick or x: MRes ☒ Masters by Research
Masters Course Title: (e.g. MSc by Research Energy Innovation, MRes in Biosciences) MRes in Biosciences
Preferred start date: October 2019 ☒ January 2020

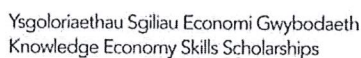
2). Company and University details

Company name:	Three-Sixty Aquaculture Ltd
Company project supervisor:	JAMES FOX-DAVIES
Telephone contact number:	07801025005
E-mail contact:	james@360aquaculture.com
HEI Name :	Swansea University
Department :	Biosciences
Academic supervisor :	Prof Carlos Garcia de Leaniz
Telephone contact number:	01792 295383
Email:	c.garciadeleaniz@swansea.ac.uk
Second academic supervisor	Prof Sonia Consuegra
Telephone contact number:	



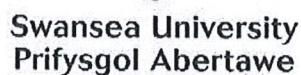
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s.consuegra@swansea.ac.uk

x





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4). Identified an Eligible Student

Have the partners identified an eligible student for this project?

Yes, several students are interested, and would be interviewed for this position

If yes, please state the name and submit a completed participant application with this application:

If no, do the partners anticipate any problems in recruiting one?

No, there are several excellent candidates

5). Project Details

5.1	Project Title : Development of a sperm bank for supporting the cleaner fish industry in Wales
5.2	<p>Briefly summarise the work to be carried out in the proposed studentship project, linking this with the identified company need :</p> <p>Sea-lice control remains one of the most important challenges for the salmon farming industry in the UK and worldwide. The use of lumpfish as cleaner fish offers a 'green alternative' to medicines for sea-lice control, but production still relies on the capture of wild fish, which is not sustainable. To meet global industry needs, lumpfish production needs to increase to reach c. 50 million fish annually and this can only come from aquaculture. Wales is uniquely positioned to help deliver lumpfish for the global cleaner fish market, but to achieve sustainable intensification several technical challenges remain; these can only be overcome through a dedicated R&D programme involving HEIs and Industry.</p>
5.3	<p>Summarise the specific academic, scientific or technical challenge(s) to be addressed :</p> <p>A knowledge gap analysis indicates that one key area that has been flagged by industry is the need to have a sperm bank of disease-screened males of local provenance with a known genetic background to aid in selective breeding and traceability.</p>



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5.4	<p>How will the outputs of the proposed project relate to the University's research strategy :</p> <p>Based at the Centre for Sustainable Aquatic Research (CSAR), the proposed project will help to produce quality research outputs for REF2021, train a student to MRes level, contribute to the Department's impact and environment cases, and address one of the key targets of the Wales Aquaculture Strategy.</p>
5.5	<p>Indicate the potential economic benefit of the proposed project for the Convergence region :</p> <p>The commercial sponsor (360 Aquaculture - based in Swansea), has the ambition to become a leading supplier of locally sourced, disease-screened lumpfish to the UK market. The development of a sperm bank through this KESS studentship will help this, and other companies, compete in the lucrative cleaner fish market.</p>
5.6	<p>Indicate in this section any additional benefits for the Convergence region (West Wales and the Valleys) that may result from the collaboration. Include social benefits or potential for value added linkage with other European funded projects.</p> <p>The sperm bank will facilitate the development of selective breeding for lumpfish in Wales. This is one of the greatest challenges facing the cleaner fish industry, which is one of Europe's (and UK's) largest aquaculture industries. The project will be developed within a convergence area of Wales (Swansea) and will help to support the development and growth of the sponsor's new lumpfish plant at Swansea, thereby creating employment and wealth. The results of the proposed research will be of interest to the EU aquaculture industry, and provide considerable scope for synergies and links with other EU and WEFO projects (AQUAWALES, SMARTAQUA). It will also complement other KESS scholarship.</p>
5.7	<p>Give brief details of the academic supervisor's track record of knowledge transfer projects with external partners :</p> <p>The academic supervisors, Prof Garcia de Leaniz and Prof Consuegra, have run several highly successful KESS projects over the last 15 years, and have considerable experience with external partners including industry (Marine Harvest, Land-Catch, FishVet, FAI), SMEs (Natural Aptitude, FishGen), government agencies (Environment Agency, Natural Resources Wales, Cardiff Harbour Authority) and NGOs (Wye & Usk Foundation, WFMF). We are currently leading several large EU funded projects (AQUAINVAVED, AMBER, STREAM, SMARTAQUA) which have large KT components.</p>
5.8	<p>Please identify any specific training / support the student will need to complete the project :</p> <p>In addition to the courses run by the College of Science as part of the MRes programme, we propose to arrange advanced training on R and bioinformatics</p>



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5.9	<p>Ethical issues - If applicable, briefly outline any ethical issues associated with the project, and how these will be fully considered and addressed if the KESS scholarship is awarded.</p> <p>The project will be screened by the College of Science Ethics Committee. Permission to carry electrofishing will be south from NRW and Health & Safety Assessment will be carried out before any field work. The supervisory team had all the necessary licences and will train the student.</p>
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6). Conflict of interest

Are you related or connected with anyone employed by the University, or with any member of the University Council? Do you have any ownership rights on the supporting host company? Any possible conflicts of interests must be declared here : No

7). Proposal Approval

- 1) In signing the approval of this project proposal, the academic, department and college are agreeing to meet the ESF Funding objectives and completion of the project outputs, within the time period as set by the KESS II Office.
- 2) As the main supervisor of this project I understand that monthly timesheets must be completed by all academic supervisors and that together we must provide a minimum of 16.5 hours of direct / non-direct supervision each month. I also understand that any academic supervisors that are 100% funded by structural funds or other grant funding are not permitted to provide time sheeted supervisory time.

Academic Supervisor Approval:

Date: 27/03/2019

Head of Department Approval:

Date:

28/3/19

College Approval:

Date:

28/03/19

Director of Research

NB – Tuition fees will be covered by the individual Colleges, not via KESS funding



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Section B – Company Details (Eligibility) – Partner to complete

Business Name :		Three-Sixty Aquaculture Ltd	
Company contact (name) and job title:		JAMES FOX-DAVIES Director	
Address (in convergence area) :		360 Aquaculture, Queens Dock, Swansea Docks, SA1 1AQ	
County :		West Glamorgan	
Post Code :		SA1 1AQ	
Telephone number and alternative telephone number :		01726 833043	
E-mail address :		james@360aquaculture.com	
Website :		www.foweyshellfish.com (pending www.360aquaculture.com being ready)	
Company Registration Number :		08914353	
Business Activity / Sector e.g. agriculture, engineering, builder etc. :		Aquaculture	
Number of employees:	Full time:	Part-time:	Seasonal:
	3	2	
Start-Up? (less than two years old) :			?



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Social Enterprise? :			No
VAT Number, if appropriate :			
Turnover – less than 50m euro?:			Yes
Annual turnover in £s £0	Latest period £0	Last Audited period £0	Prior Audited period £0
Is the company's balance sheet more than 43m Euro? :			No
Is the company independent? i.e. you have no participation in other enterprises and no enterprise has a participation in yours : Please confirm if you have a holding of less than 25% of the capital or voting rights (whichever is the higher) in one or more other enterprises and/or outsiders do not have a stake of 25% or more of the capital or voting rights (whichever is the higher) in your enterprise.			Yes / No Yes / No
Does your business have an equal opportunities policy? :			Yes
Does your business have an environmental policy? :			Yes
Has the company partner participated in any of the following Business University schemes? GO Wales Student and Graduate Placements Knowledge Transfer Partnerships (KTP) Research Council sponsored Industrial CASE Award Previous rounds of KESS scholarships Other (please give details):			Yes / No Yes / No Yes Yes



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<p>How did you find out about KESS e.g. website, University, Business support, agency, other? Please specify:</p>	<p>Through University</p>
<p>Please identify the company need that this KESS project will address.</p>	<p>A sperm bank to support the growth of the UK lumpfish in Wales, support selective breeding and lessen dependence on seasonal availability of males</p>
<p>Please identify how the project could potentially have a positive impact on the business e.g. increased sales, development of new product, new jobs created, etc.</p>	<p>The availability of cryopreserved sperm of disease screened males with genetic pedigree will support industry growth, increase sustainability and lessen market volatility. This will generate jobs and wealth</p>
<p>Cash Contributions</p>	<p>Partners are required to make cash contributions to the KESS 2 Programme, depending on their size and the year in which the project starts. Minimum contributions are set out in the KESS Company factsheet, available from the KESS website. Click the following link - KESS Company Contributions.</p> <p>NB - The cash contribution from partners cannot include funds from other European sources.</p>
<p>Intellectual Property</p>	<p>Project results and intellectual property (IP) arising out of the project will be owned by the University to comply with EU State Aid regulations. The University is able to grant an exclusive or non-exclusive licence, charged at market rates on a fair and reasonable basis, if the partner wishes to exploit IP. For further clarification is available from the KESS Project Manager in Swansea University on 01792 606282 / m.p.mcmahon@swansea.ac.uk.</p> <p>Do you accept these requirements? Yes</p>



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Declaration	I declare that the details given on this form are true to the best of my knowledge.
	Signed: <u>[Signature]</u> Date: <u>22/3/14</u> Position within Business: <u>Director</u>

Equal Opportunities

This information is collected for statistical purposes only, please put ✓ in the relevant box.

Title (Mr, Mrs, Ms, Miss, Dr)		
Surname		
First Name(s)		
Date of Birth		

Gender	Male	Female
Disabled	Yes If yes, nature of disability	No
Work Limiting health condition?	Yes	No
Lone parent	Yes	No

Speak Welsh	Yes	No
Understand Welsh	Yes	No
Read Welsh	Yes	No
Write Welsh	Yes	No

I would describe my ethnicity as:		
Black		White
Black British		British
Black English		English
Black Irish		Irish



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Black Scottish		Scottish	
Black Welsh		Welsh	
Caribbean		Any other White background, please specify:	
African			
Any other Black background, please specify:		Dual Heritage:	
		White and Black Caribbean	
Asian		White and Black African	
Asian British		White and Asian	
Asian English		Any other dual heritage background, please specify	
Asian Irish		Gypsy	
Asian Scottish		Traveller	
Asian Welsh		Romany	
Indian			
Pakistani			
Bangladeshi			
Chinese			
Any other Asian background, please specify:			
If you would prefer to describe your ethnic origin in another way, please do so:			



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Section C – Budget

Please ensure that you have completed the budget excel spreadsheet and attached it here.

We would like to set a preliminary budget with a final budget to be submitted once the student's needs have been assessed.

Student Fee (MRes) for 2019/2020 = £4,345

Student Stipend = £11,702

Laboratory consumables (Cryobank) = £6,500

Disease screening (qPCR, histology) = £2,800

Equipment (laptop) = £800

Travel & student presentation at conference = £700

Total project costs = £26,847

KESS-II contribution = £14,742

University Contribution = £4,345

Required contribution from Sponsor(s) = £ 7,760



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