### **U H I NORTH, WEST AND HEBRIDES** A TUATH, AN IAR IS INNSE GALL



## NWH Research and Knowledge Exchange

Institutional development - Regional impact – Global connection

**Quarterly Report: September 2024 – November 2024** 

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### INTRODUCTION

The NWH Research and Knowledge Exchange Quarterly Report provides an update on Research and KE activity across NWH. It is not intended to be comprehensive; but rather give a representative picture of the range and diversity of research and knowledge exchange being undertaken across the institution while highlighting initiatives, outputs and impacts where appropriate.

To ensure consistency and to mitigate excessive reporting burden, the same report is circulated to a number of groups and interested parties i.e., to act as a 'single point of truth' that can be used and shared with confidence. The report will be circulated to:

- NWH Research and Knowledge Exchange Staff
- NWH Communication team
- NWH Executive
- NWH Highland Board of Management
- UHI Dean of Research and Knowledge Exchange

Certain sections of the report are relevant to particular Committees of the NWH Highland Board of Management. These are as follows:

- Finance and General purposes Committee Activity Reports and Outputs
- Learning Teaching and Research Committee -

The report is produced on a quarterly basis according to the following schedule:

Period covered	Circulation
September to November	December
December – February	March
March - May	June
June – August	September

## ACTIVITY REPORTS

heme		• Energy
Highlig	hts	
•		ling to present a posted at the <b>Society of Marine Mammalogy Biennial</b> n 'Harbour porpoise presence and foraging at two floating offshore wind farms
•	-	sed UHI to join the <b>Scotland Beyond Net Zero (SBNZ)</b> initiative, a coalition of licated to supporting Scotland's goal of achieving net-zero emissions by 2045. Disite has also launched.
•	•	las Petzinna and Benjamin Williamson exhibited at the <b>Floating Offshore Wind</b> Ossian representative to discuss the development of UHI/Ossian researcher
•	Benjamin Williamson host around offshore wind envi	ed a site visit from <b>Thistle Wind Partners</b> to develop collaborative partnerships ironmental effects.
•		Alan Youngson, Jason McIlvenny and Benjamin Williamson published a review quatic organisms to dynamic visual cues originating from aerial wind turbine
•	international collaboration	vered a presentation at the N <b>ova Scotia Offshore Wind R&amp;D Forum</b> , developing ns on ecosystem impacts of offshore wind to guide the Atlantic Canadian d regulators with UK learnings.
•	-	nitted a proposal to <b>PEACEPLUS EU</b> <i>funding</i> call developing Sustainable Coastal Habitats by Advancing New Green Enterprise.
•	-	presentation at AIM <b>ECOWind 2024</b> in Southampton on her work in the PELAgIC proach to monitoring fish behaviour and predator interactions around offshore
Curren	t major projects/initiatives	s (select; with partners + funders) - examples
	being used to develop the	effects research has continued, including research from the <b>PREDICT</b> project Offshore Renewable Energy Catapult's report on 'Developing a Regional gramme for the UK Offshore Wind Industry'.
•	Three active acoustic and c completing the second yea level effects of offshore wi recovered from the Hywing	beceanographic landers were recovered from the SSE Seagreen windfarm or of measurement campaigns as part of research into physics-to-ecosystem nd in the <b>PELAgIO</b> project. An array of passive acoustic recorders was also d Scotland floating windfarm, as part of the <b>IFLOW</b> project investigating effects n fish and marine mammals.
•		platform has completed recording at the <b>Salamander</b> offshore wind farm, as oject alongside a fluorometer and metocean campaign.
	-	ted to the <b>EQUIFy</b> project 'Establishing a Framework for Quantifiable Evidence Thange Throughout the Lifecycle of UK Floating Offshore Wind Farms'.
•	-	ergy Catalyst project with INGINE Wave Energy Systems has kicked off, emonstration of the wave energy converter in Indonesia.
		<b>DBINSON</b> project was completed by Elizabeth Masden, Lucy Mitchell and entitled 'Ecological Impacts of ROBINSON on Eigerøy: Using acoustic monitoring ty'

Them	ne	Pollution
Highli	ghts	
•	-	fully <b>completed and defended his PhD</b> (on constructed wetlands) and has now moved to osition at Exeter: 5 papers published and more expected out in the coming months.
•	assessing the risk of	joined the ERI as part of the <b>SUPER DTP-funded PhD</b> , "Seabirds as sentinel species: of nest incorporation of marine plastic debris." Steph is supervised by Neil James, and supervisors from the University of Aberdeen and Marine Scotland Science.
•	implications of los Sustainability. Add hosted at the Dun	lark Taggart are working on the extension to the ALPS funded project <b>"Socio-cultural</b> <b>sing a keystone species (vultures) in Asia</b> " with partners at UHI Centre for Living litional KE Challenge Fund support has now been secured to undertake a workshop dreggan Rewilding Centre in spring 2025. This will build partner engagement and look ubstantive funding application.
•	working on anothe and start to build a	ubmitted an application for an ambitious 1 <b>0-year RSE "Green Future Fellowship"</b> and is er E <b>PSRC 5-year Fellowship</b> – to continue his work on sewage sludge biochar in the UK a new team/research line at ERI. Both applications are entitled - "Chasing sustainability e water sector: Processing biosolids into biochar (CassioPeia)".
•	England) regarding	<b>T PhD</b> project ( <i>Impacts of multiple stressors (pollutants and disease) on beavers in</i> g beavers with Natural England, Lancaster and Herriot Watt is now being advertised, with muary 2025 (DoS Mark Taggart).
•	SAMS on "Calanus	<b>Funcil first stage applications</b> have been submitted – both relevant to Pollution, one with as vectors of pharmaceuticals and contaminants in the marine environment: one with UHI-LSIC on "PhRESHWater: Pharmaceutical Reduction in our Environment le Healthcare?".
•		en collaborating with researchers at Federation University, Australia, utilizing the long- i <b>s project</b> to gather citizen science data for work investigating terrestrial bird-debris n Australia.
•	held in Bodø, Norv future, highlightin	bing <b>SHIFT-PLASTICS project,</b> Neil James participated in a workshop and partner event vay. The event focused on co-developing a roadmap to articulate 'best practice' for the g radical and incremental innovations to support industry transitions toward more terial utilization. The workshop engaged Norwegian and international partners.
•	in Alicante, and pr	ydia Niemi attended the <b>24<sup>th</sup> European Meeting on Environmental Chemistry (EMEC24</b> ) esented research on resource recovery from wastewater with biochar and environmenta harmaceuticals in the water environment
Curre	nt major projects in	itiatives (select; with partners + funders) – examples
•	•	<b>roject with SAMS and SRUC</b> continues. ERI is currently developing new composite nix of biochar and shell waste – for use in P adsorption – and then subsequent application er).
•	be published soon marketplace. A ne	nded work continues within the <b>SHOT-SWITCH project.</b> A new paper on Pb in grouse will – and lots of work is ongoing around various game meats available in the human food w method is being developed to look at residues of flubendazole in grouse also destined aption (an antiparasitic drug).
•	investigate priority	abolcs Pap finished work on the Carnegie funded project <b>"Sewage sludge as biochar"</b> to contaminant removal from wastewaters. A new LC-MS/MS method was for the analytical work.
•		ontract has now completed/wrapped up (Paul Gaffney and Mark Taggart) which looked a rology and peatland restoration following construction of the Bad A Cheo windfarm.

Theme	<ul> <li>Peatlands</li> </ul>	
Highlights		
peatland restoration	• Liam Godwin passed his <b>PhD viva</b> subject to major corrections, for his project investigating the effects of peatland restoration on Salmon habitat. Since November, as well as his roles on Mothership and on teaching, he becomes a member the Leverhulme project team until June 2024.	
and supports <b>Plantl</b> Johnstone for coord	successfully completes the full re-survey of the <b>Fire Blanket vegetation</b> (5 year post fire) <b>ife's Munsary peatland vegetation survey</b> in August and September. Thanks to Heather linating the team and organising the complex logistics, and for all the team members volunteers who helped with Fire Blanket.	
	ith support from Jacqueline Barclay delivers the first " <b>For Peat's sake" contractor</b> of 7 learners in the first week of September.	
	hosts two <b>international visitors</b> (Marlene Mellwig, Germany and Eleonor Bergeron-de- een September and December 2024	
context of onshore	fer Project with RWE is submitted to develop innovative use of excavated peat in the wind development and a NERC Pushing the Frontiers proposal on Mercury advances to a led by Roxane Andersen.	
Current major projects init	tiatives (select; with partners + funders) – examples	
Leverhulme Leadership (Leverhulme Trust) enters the final year of the project (end date Nov. 2025).		
wildfire using eDN/	ads a collaboration with Inverness College to look at invertebrate changes following A, Praveen works on two peer-reviewed publications on wildfire and weather modelling, ts are writing up their PhDs and Liam Godwin joins the team to support the final year and analyses.	
Edrington group). I	<b>er Project</b> Highland Park is 6 months in (funded by a KTP with UKRI Innovate UK and Lewis Robertson has developed two trials on site and continues to develop the longer- strategy and the current monitoring programme at the Hobbister site	
	<b>ect</b> (URKI Large Grant, JHI lead) Roxane attends the 2.5 year meeting virtually and on plans for WP 3 (InSAR and DigiBog)	

Theme	Tourism		
Highlights			
<b>Interface</b> , worki Data Labs, who i	<ul> <li>A Student Placement Innovation Voucher has been approved for the Collective Knowledge Project by Interface, working with a MSc Data Analysis student from UHI Inverness. The student has a scholarship wit Data Labs, who initially approached us as a potential project for one of their scholarship students. Peter White is the lead.</li> </ul>		
with partners in alternative syste	art of a <b>Dutch SIA project</b> , which was recently awarded funding, for a networking project Finland, Denmark, Sweden and Spain, to a) start up a transdisciplinary research group on mic approaches to tourism businesses and destinations, b) produce white papers and t on the subject of just tourism transitions and c) write two major funding applications.		
would be suitab	received funding from <b>UHI's KE Tourism challenge fund</b> , to explore which AI technologies e for tourism products and services on the Ardnamurchan peninsula, with the intention to rough future UHI and industry collaborations.		
project to celeb	ured funding from Inverness City Heritage Trust to work with RGU and UHI Inverness on a rate the <b>role of Charles Fraser Mackintosh in shaping the Highlands</b> . This will be used as or a Heritage Lottery Fund application recently submitted.		
• Steve Taylor atte Africa.	ends and presents a paper at the International Adventure Conference in Knysna, South		
Cultivating relat	ends and presents at a symposium at the University of Edinburgh on 'Heritage and Horizon: onships between cultural heritage and sustainable development', to mark the end of the unded project with UHI Perth and overseas partners.		
Current major projects initiatives (select; with partners + funders) – examples			
•	recently started PhD supervision and fieldwork in a <b>UKRI-funded project</b> exploring the rism, led by the University of Glasgow and with partners in Sweden and Spain.		

Theme	Education
Highlights	
•	
Current major projects init	tiatives (select; with partners + funders) – examples
•	

Theme	<ul> <li>Society</li> </ul>
Highlights	
Action" in recognition	artnership wins the <b>Nature of Scotland Award</b> in the category "Nature and Climate on for the work on the Flow Country World Heritage Site and the Green Finance Projec presented the ERI ( amember of the FCP) at the award ceremony.
a United Nations (UI	ed the <b>Leadership Council to the Sustainable Development Solutions Network (SDSN</b> N) initiative which aims to mobilise the world's knowledge community for science- sustainable development.
	is facilitating a series of talks with external experts for the <b>Net Zero Hub</b> , the first of th Prof Mike Berners-Lee on 8 <sup>th</sup> October. Mike discussed how we can each play a sustainable future.
Current major projects init	iatives (select; with partners + funders) – examples
Waters" project invo to continue driving S medicines use. Two	ecured through the <b>Scottish Government's Test &amp; Learn Programme:</b> The "Bridging olving Lydia Niemi and Stuart Gibb with collaborators at the University of Uppsala aim Scottish-Swedish engagement in One Health, pharmaceutical pollution, and sustainab visits will be organised – one in Sweden in Feb 2025, and one in Scotland (likely 025. UHI staff and external collaborators will be invited.
funded by the Scotti planning meeting in	iemi, and Neil James continued work with the <b>One Health Breakthrough Partnership</b> , ish Government's Water Industry Division team. The OHBP will undertake business Jan 2025 to develop workplans and proposal for the next financial year, engaging wit ment representatives.
practices for eco-dir from 22 countries ac healthcare, public h policy alignment reg	art Gibb submitted a <b>COST-Action proposal "</b> <i>EcoMeds4U: Improving healthcare</i> <i>ected use of human medicines across Europe</i> " (£600k, 4yr project) with 59 collaborato cross Europe representing expertise in pharmaceutical pollution, pharmacy, sustainab ealth, qualitative science, and drug utilisation research. The proposal aims to promote garding priority substances in the water environment and facilitate research ss Europe in developing sustainable healthcare interventions reducing pharmaceutica

Theme	• Other
Highlights	

• Expansion of Atmospheric and Astronomical Science research – two concurrent projects now running.

#### Current major projects initiatives (select; with partners + funders) – examples

- DARA (Development of Radio Astronomy in Africa): A £6.5m astronomy project, introducing skills and expertise to countries across Sub-Saharan Africa, led by the University of Leeds, with partners University of the Highlands and Islands (UHI) and the Universities of Manchester, Edinburgh, Hertfordshire, Bristol, Oxford, Durham, Stirling, Cape Town, Pretoria, Rhodes, North West, UNISA and the Inter-university Institute for Data Intensive Astronomy. (started April 2024, continues until 2027).
- UK DSIT (Department of Science, Innovation and Technology) Tactical Fund grant for £100k successful (starting 1<sup>st</sup> December 2024).

#### All themes

Peer-reviewed publications	Journal Impact Factor
Citation with NWH authors in bold Hughes, R., Hancock, M.H., Anderson, R., Gullett, P.R., Littlewood, N., Pravia, A., Andersen, R. (2024) Bird assemblage changes on peatland affected by large-scale non-native afforestation in the Flow Country (Scotland). Mires and Peat, 31, 14, 22pp.	
Sloan, T.J., Ratcliffe, J., Anderson, R., Gehrels, W.R., Gilbert, P., Mauquoy, D., Newton, A.J., Payne, R.J., Serafin, J. and <b>Andersen, R.</b> , 2024. Potential for large losses of carbon from non- native conifer plantations on deep peat over decadal timescales. Science of The Total Environment, p.175964.	
<b>Hughes, R</b> ., Klein, D., <b>Andersen, R.</b> , Anderson, R., Gullett, P. R., Littlewood, N., Hancock, M. H. (2024). Breeding Common Scoters Melanitta nigra in Scotland's Flow Country: a population in decline despite productivity being stable. Bird Study, 1–14.	
Cook, Aonghais S. C. P., Eldina Salkanovic, <b>Elizabeth Masden</b> , Hsiu Eik Lee, and Alexander Holm Kiilerich. 'A Critical Appraisal of 40 Years of Avian Collision Risk Modelling: How Have We Got Here and Where Do We Go Next?' Environmental Impact Assessment Review 110 (1 January 2025): 107717. <u>https://doi.org/10.1016/j.eiar.2024.107717</u> .	
<b>Cakin, I., Pap, S., Gaffney, P.P.J., Taggart, M.A.,</b> 2024. Designing a biochar-based pretreatment method for distillery effluents entering constructed wetlands. Journal of Cleaner Production 476, 143790.	9.8
Blanz, M., Balasse, M., Card, N., Ascough, P., Fiorillo, D., <b>Taggart, M.A.,</b> Feldmann, J., Mainland, I., 2024. Life, death and teeth of Late Neolithic sheep and red deer excavated at Ness of Brodgar, Orkney Islands (UK). Environmental Archaeology 29, 465-477.	1.2
B.J. Williamson, L. Goddijn-Murphy, J. McIlvenny, A. Youngson (2024). Potential Exposure of Aquatic Organisms to Dynamic Visual Cues Originating from Aerial Wind Turbine Blades. Fishes. <u>http://doi.org/10.3390/fishes9120482</u>	2.1
J. Slingsby, B.E. Scott, L. Kregting, J. McIlvenny, J. Wilson, F. Helleux, B.J. Williamson (2024). An Experimental Methodology for Automated Detection of Surface Turbulence Features in Tidal Stream Environments. Sensors. <u>http://doi.org/10.3390/s24196170</u>	3.4
Niemi, L., Arakawa, N., Glendell, M., Gagkas, Z., Gibb, S., Anderson, C. and Pfleger, S., 2024. Co-developing frameworks towards environmentally directed pharmaceutical prescribing in Scotland–A mixed methods study. <i>Science of the Total Environment</i> , <i>955</i> , p.176929. <u>https://doi.org/10.1016/j.scitotenv.2024.176929</u>	8.2
Tosetto, E. G., Lett, C., Neumann-Leitão, S., Koch-Larrouy, A., Barrier, N., Da Silva, A. C., <b>Salvetat, J</b> and Bertrand, A. (2024). Diel vertical migration and seamount stepping stones promote species connectivity from coastal to offshore insular systems in the Tropical Southwestern Atlantic. <i>Limnology and Oceanography</i> , <i>69</i> (9), 2071-2084. <u>https://doi.org/10.1002/lno.12648</u>	8.5
Da Silva, C. L., <b>Salvetat, J.</b> , Pelage, L., Pereira, C. A., Travassos, P., & Bertrand, A. (2024). Distribution of pelagic and demersal fish assemblages by video prospection in the archipelago of Fernando de Noronha. <i>Regional Studies in Marine Science</i> , <i>78</i> , 103761. <u>https://doi.org/10.1016/j.rsma.2024.103761</u>	2.1

<b>Edward Graham</b> , Richard Vaughan, David Buckley, Acacia Leakey, Colin Snodgrass, Cyrielle Opitom, Paul Baki, Susan Murbana, Chu Owens and Dan Hillier (2024). An overview of site testing and site characterisation, as applied in the search for an astronomical site in Kenya.
Proceedings of the International Astronomical Union, General Assembly IAU-GA 2024: Focus
Meeting 1: Harnessing ground-based optical telescopes: an opportunity for emerging astronomy in Africa. Cambridge University Press (CUP).

### • Book chapters

**S. Pap,** M. Ross, P. Kumari, R. Boyko, and **M. A. Taggart**, (2024). The Use of Marine Biomass in Biofertiliser and Biostimulant Production: Current Status and Future Perspectives. In Blue Bioeconomy Value-added Products from Marine Algae and Microorganisms, eds. R. T. Kapoor, M. Sillanpää, and M. Rafatullah, Royal Society of Chemistry, 2024, CH5, pp. 84-105.

<ul> <li>Conference/event presentations</li> </ul>	Poster / podium / invited
Elizabeth Masden presented at the BOU ASM Birds and Net Zero - "Renewable energy in an uncertain world: understanding uncertainty to enable the energy transition"	Invited keynote
Peter White co-hosted two workshops titled 'Proactive Safety Management' on 21 <sup>st</sup> November at the Hollowford Centre, Derbyshire, for the Institute for Outdoor Learning's 'Strategic Thinking Day'.	Invited
Steve Taylor presented to the International Adventure Conference in Knysna, South Africa on Sept 9 <sup>th</sup> on 'Exploring a regenerative tourism approach to rural community development in Scotland and Ireland'	Podium
Szabolcs Pap participated in a SAGES podcast series for the episode surrounding Innovation, the initiative was funded through the Scottish Government Climate Engagement Fund. The podcast will be available in January 2025.	Podcast recording/invited
Szabolcs Pap participated in the EBNet ECR Autumn CPD Event "The Next Wave - Skills Development for Emerging Professionals", in Coventry, UK.	Invited
Szabolcs Pap and Mark Taggart participated in the Hydro Nation Chair Crucible event "Circular Economy in the Water Sector" at the University of Strathclyde in Glasgow.	Invited
Szabolcs Pap gave an invited guest lecture at the University of Strathclyde entitled "Phosphorus recovery from wastewater with biosolids biochar" on the 6th of November.	Invited
Szabolcs Pap attended the European Biosolids & Bioresources Conference & Exhibition, 11-12 November 2025, The Point at Emirates Old Trafford, Manchester, UK (https://european- biosolids.com/).	Invited
24th European Meeting on Environmental Chemistry (EMEC24) in Alicante (Spain) Szabolcs Pap a presentation entitled "Resource recovery from wastewater with biochar: phosphorus fractionation and quality assessment". Stuart Gibb participated in the Board of the Association of Chemistry and the Environment	Podium
Anna McWilliam attended 3 events, and presented work on Phosphorus Export and Peatland Restoration: 17/09/24 IUCN UK Peatland Programme Conference; 25/09/24 Aarhus Biodiversity Symposium, Denmark; 20/11/24 HydroNation Welcome event	All Poster
Mark Taggart attended an EU COST action Workshop in Denmark in September – looking at game meat contamination by ammunition in the EU.	Invited
Benjamin Williamson presented at the Nova Scotia Offshore Wind R&D Forum in November, developing international collaborations on physics-to-ecosystem level impacts of offshore wind to guide the Atlantic Canadian offshore wind industry and regulators with UK learnings.	Podium

### • Media coverage

#### **Overtourism in the Highlands**

- Steve Taylor interviewed by *The National* for an article on overtourism in the Highlands: <u>NC500: Tourists</u> <u>must be tempted away from 'bucket list' Highlands spots, say experts | The National</u>
- Likewise, Steve interviewed for a similar article in the *i* newspaper: <u>I live in a beautiful Scottish village -</u> Instagram tourists are ruining it
- Kendra Turnbull wrote an article for World Tourism Day entitled 'From Overtourism to Regeneration: Rethinking the Impact of Tourism on Communities', shared on social media and through UHI and NWH: <u>News - Blog I From Overtourism to Regeneration: Rethinking the Impact of Tourism on Communities</u>

#### **Innovative Water Treatment**

<u>Scientists filter out opportunity to combat algal blooms with sewage waste - Water Magazine</u>

#### Woodburning Stove Research

- SNP u-turns on wood-burning stove ban | The Herald
- Forestry: Wood-burning stove ban paused in Scotland | Forestry Journal

#### Stuart Gibb UN Role

- Thurso environmental science expert 'immensely privileged' to take on UN role
- <u>News UHI professor joins United Nations Leadership Council on sustainable development</u>

#### **Flow Country**

- Investing in The First Peatland UNESCO World Heritage Site in The World The Highland Times
- News Flow Country Partnership shortlisted for RSPB Nature of Scotland Award

#### PhD Student Research

<u>News - PhD Researcher Spotlight: Anna McWilliam</u>

## • Staffing

Staffing section will be completed from 1 January 2025

- Number of staff on research contracts
- No of research active staff (assessment methodology under development)
- Number of staff in last Research Excellence Framework

### • Postgraduate Students

(to be updated by Directors of Studies)

	31 May 2024	31 August 2024	30 November 2024		
Postgraduate Research	14	14	12		
Student numbers					
(PGR, at time of report)					
PGR completed in 24-25			2		

Degree	Funder	Start date	End Date	Status	DoS	Additional NWH Supervisors
	SSER/RS					Lucy Mitchell,
PhD	PB	01/09/2022	31/08/2025	Ongoing	Roxane Andersen	Chris Marshall
	MASTS	<u> </u>				
	SUPER					
PhD	DTP	01/10/2019	31/03/2024	complete	Roxane Andersen	Paul Gaffney
	Hydro-					
PhD	Nation	01/10/2020	31/09/2024	complete	Mark Taggart	Paul Gaffney
	MASTS					
	SUPER				Benjamin	
PhD	DTP	01/10/2020	31/03/2024	Ongoing	Williamson	
	MASTS					
	SUPER					
PhD	DTP	01/10/2020	31/09/2024	Ongoing	Peter Gilbert	Roxane Andersen
	Lever-					
PhD	hulme	06/09/2021	05/03/2025	Ongoing	Roxane Andersen	Mascha Bischoff
	Lever-					
PhD	hulme	06/09/2022	05/03/2025	Ongoing	Roxane Andersen	
	Lever-					
PhD	hulme	13/09/2021	12/03/2025	Ongoing	Chris Marhsall	Roxane Andersen
	Hydro-					
PhD	Nation	01/10/2021	30/09/2025	Ongoing	Mark Taggart	Paul Gaffney
PhD	RSPB	02/02/2022	01/09/2026	Ongoing	Roxane Andersen	

PhD	MASTS SUPER DTP	01/09/2022	31/03/2026	ongoing	Benjamin Williamson	
	Self-					
PhD	funded	01/11/2021	31/10/2024	Ongoing	Steve Taylor	Michelle Smith
					Benjamin	Jason McIlvenny,
PhD	UHI	01/02/2024	31/07/2028	ongoing	Williamson	Lucy Mitchell
					Benjamin	
PhD	ETP/UHI	01/03/2024	31/07/2027	ongoing	Williamson	
ADD						

# • Visiting staff and placement students

Name	Staff / student	Home country/ organisation	Dates	Project title	NWH Theme
			(Length of visit/		
<u> </u>		(Programme if applicable)	placement)		
	mpleted /cu				
Marlene Mellwig	student	Germany	4 months	Working with Mascha Bischoff on eDNA techniques for identifying microorganisms in peat	Peatlands
Elisabeth Werling	Student	Germany	6 weeks	Worked with Anna McWilliam on her PhD on the impacts of forestry felling on water quality.	Pollution
Grace Beaumont	Student	Iceland	4 months	Master thesis: 'How Tik Tok has Connected and Disconnected Gaelic Culture in an Age of Tourism in Northwest Scotland' supervised by Steve Taylor	Tourism
Eleonor Bergeron- de-Pani,	Student	Canada	4 months	Working with Roxane Andersen	Peatlands

A summary of the applications contributing to the NWH Research and KE 'pipeline' is provided in the table below.

#### Please note:

- New proposals submitted within this reporting period (September to November 2024) are shown in lines 446 onwards
- The status of pending proposals is 'dynamic', but the table reflected the position as of 30/11/2024
- Proposals under negotiation, or subject to resubmission, may be subject to changes in value
- Proposals submitted of value less than £5k are not included
- Intervention rates vary per project, as does the monthly euro conversion rate used by EU Projects

In the meantime, we continue to explore new funding opportunities, including those in partnership with external universities, research institutions, businesses, and stakeholders.

#### **General comments**

- Outline proposals which are under development or at stage one (expression of interest) are shown on the pipeline where the Advanced Notification Forms (ANF) have been submitted to ELT for approval based on estimated income. The pipeline will be updated should applicants be invited to submit full proposals.
- Where projects are of short duration and/ or all funding received in 23\_24 Financial Year these are shown on the pipeline as complete.

392 399 400 403 oplication	proposal/theme is submitted June to Aug 2023 EuropeWaye3				of success					
392 399 400 403 oplication	_	ERI/NWH			of success					
399 400 403 oplication		ENERGY	6,000,000	120,000	10	33	Horizon/Energy Wave Scotland			awaiting outcome
400 403 oplication	Metocean monitoring PHD	ENERGY	105,000	105,000	25		ETP +company	30	30	secured
403 oplication	Offshore Env. Measurements	ENERGY	48,384	48,385	50		Orsted Salamader			secured
oplication	Nest incorporation of plastic PhD	POLLUTION	75,000	75,000	10		SUPER DTP	33		secured
404	is submitted Sep to Nov 2023	ERI/NWH								
	HNSP dentistry	SOCIETY	102000	102000			Hydro Nation			unsuccessful
406	Offshore Ocean Wind Demonstrator	ENERGY	250000	250000	50	24	industry			under developme
407	Mountain Epistemes and Justice	TOURISM	600000	45000	10	36	AHRC	33		secured
	Healthy Young minds	TOURISM	80000	5000	25	18	public heatlh intervention	25	50	secured
	is submitted Dec 2023 to Feb 2024	NWH								
	review of wildfire risk	PEATLANDS	16,000	16,000		6	SSER			complete
	EU_Be_SMART	PEATLANDS	7,500,000	560,000			Horizon Europe_biodiversity			unsuccessful
	Corpach Marina	TOURISM	14,000	10,000		3	innovation voucher			complete
-	ns submitted March to May 2024		110 000	91,700	10	44	ECOWILDCDT	33		secured
	Multiple stressors on wildfowl_PhD Biochar and AMR_Fellowship	ENERGY POLLUTION	110,000	230,000	10	44		35	55	securea unsuccessful
			279,000				Newton Fellowship			unsuccessful
	Serbian Scientific Diaspora_Pollution adventure activites Glencoe Tourism	TOURISM	150,000	15,000 7,000			Serbia_exchange UIF/UHI			
	-									complete
	Nutrient effects on sphagnum_PhD	PEATLANDS	110,000	91,700			ECOWILD CDT			unsuccessful
	Impact of pollutants on Beavers		110,000	91,700			ECOWILD CDT			unsuccessful
	Future workforce for Climate Resilence OHBP phase 3	SOCIETY	240,000	90,000	50		ACCESS network	100		unsuccessful
		SOCIETY	74,000	74,000	50 50		Scottish Government	100		secured
	remote tracking of seabirds phase 2	ENERGY	3,000,000	30,000	50		OWEC/crown estate	20	80	secured
	Western Edge	TOURISM	17,460	8,900			Innovation voucher			complete
	Phosphorus speciation_biochar	POLLUTION	19,000	12,500	50	-	IBioIC	100		complete
	tourism in Glenurquhart	TOURISM	18,000	5,700	50	5	Innovation voucher	100		secured
	Learning from Island Communities	EDUCATION	300,000	25,000	25	24	AHRC Dutch SIA	25	50	unsuccessful
	Resilient Tourism in Europe	TOURISM	180,000	13,500	25	24		25	50	secured
	Anti microbial resistance in rural waters	SOCIETY	4,000,000	400,000			Peaceplus			unsuccessful
	Connect4FLow	ENERGY	2,000,000	218,000	25		UKRIECOFLOW			awaiting outcome
	Ecosystem change ns submitted June to August 2024	ENERGY NWH	2,950,000	550,000	25	48	UKRI ECOFLOW		25	awaiting outcome
	Monitoring healthy ecosystems	PEATLANDS	72,000	30,000			CREW			unsuccessful
	Adapting outer Hebrides_climate	ENERGY	2,000,000	400,000	10	20	UKRI/DEFRA	20		awaiting outcome
	KTP EMEC	ENERGY	305,250	255,000	50		Innovate UK	20		awaiting outcome
	Mercury, Peatlands and Climate change	PEATLANDS	1,000,000	250,000	10		NERC Pushing Frontiers			awaiting outcome
	CoPyrolysis for Sewage Sludge_network	POLLUTION	5,000	5,000	50		Royal Society of Chemistry	100		awaiting outcome
	tracking top predators_SUPER PhD	ENERGY	80,000	80,000	10		MASTS SUPER 2	100		awaiting outcome
	LOCII NH Innovation centre scoping	SOCIETY	100,000	97,000	25		NDA group	50		secured
	is submitted September to November 202		100,000	97,000	25	12	NDA BLOOD	50	30	secureu
	Bridging Waters_Scotland -Sweden	SOCIETY	31,130	18,428	25	4	Scottish Government	100		secured
	Clean CHAR_fellowship	POLLUTION	2,000,000	1,500,000	10		EPSRC Open Fellowship			awaiting outcome
	Bryden 2 Marine Sensing PhD	ENERGY	165,000	165,000	25		Peaceplus			awaiting outcome
	Dyke river salmon	PEATLANDS	30,000	30,000	50		NatureScot Peatland Action	30		awaiting outcome
	Sustainable Medicine Use	POLLUTION	600,000	48.000	10		COST EU			awaiting outcome
	Validating monitoring systems	ENERGY	125,000	97,000	25		SUPERGEN Flexfund	25		awaiting outcome
	Virtual Connections	TOURISM	20,000	20,000	10		National Lottery	50		awaiting outcome
	Sustainable Tourism GURCA	TOURISM	18,000	9,000	50		Interface IV	100		awaiting outcome
	PhRESH water_pharma reduction	SOCIETY	960,000	560.000	10		UKRI cross council	200		first stage
	Explore Lochaber	TOURISM	95,590	70,590	10	21	SSE			unsuccessful
	CO_IMPACT climate resiliance	SOCIETY	70,000	65,000			SSE			unsuccessful
	On the map NLCA	TOURISM	14,000	7,000	50	6	Interface IV	100		awaiting outcome
	Value of marine structures	ENERGY	5,600,000	475,000	10		UKRI_Artificial Structures	100		awaiting outcome
	Geophyscis in mapping peatlands	PEATLANDS	400,000	400,000			TOTAL			awaiting outcome
	Biochar chasing sustainability	POLLUTION	3,000,000	2,000,000			RAENG Green Futures		10	awaiting outcome
	PharmaCal	POLLUTION	1, 200,000	250,000			UKRI cross council			first stage
	ROBINSv2	ENERGY	500,000	50,000			UKRI cross council			first stage
	Plastic flow peatland	PEATLANDS	950,000	300,000			NERC Pushing Frontiers			awaiting outcome
	Astronomy in Kenya	OTHER	100,000	16,000			DSIT	100		secured
	GenMed	POLLUTION	2,000,000	13,000			UKRI applied global health	100		first stage
	KTP_RWE_peatlands	PEATLANDS	2,000,000	209,782			UKRI Innovate UK			awaiting outcome
	Russwood water quality	POLLUTION	9,500	9,500			Interface IV	100		awaiting outcome
8* Interv	ention rates vary e.g. NERC 80% . The budg	get shown is the total f	or the project							
B**gapsi	in sequence indicate where unsuccessful p mpleted / income received in FY23 24 are	proposals were shown								
ojects co	mpieted / incomereceived in FY23_24 are	marked as complete								