



College Management Unit:	UCD College of Science
School Unit:	UCD School of School of Biology & Environmental Science
Post Title & Subject Area:	UCD Post-doctoral Research Fellow Level 1
Project:	Mitigating Ship Strikes on Whales And Enhancing Carbon Sequestration In The Atlantic (R27493)
Post Duration:	Temporary 12-month post
Line Manager:	Prof. Mary Kelly-Quinn, Principal Investigator
Competition Ref. N^o:	017766
HR Administrator:	Qiong Zhang

Position Summary:

The Atlantic Whale Deal project will test innovative technologies to mitigate ship strikes. Ships and whales co-occur across coastal and open sea areas, requiring transnational cooperation between multiple stakeholders to prevent collisions and biodiversity loss.

The project aims to develop solutions to reduce ship strikes on whales, thus enhancing carbon sequestration, given the whales’ pivotal role in ecosystem functioning.

The project will produce (acoustic, visual, and thermal) detection and localization techniques, create maps of collision risk and acoustic contamination integrated into interactive tools, evaluate the ecosystem services provided by whales, and propose a long-term sustainable plan.

This is a research focused role, where you will conduct a specified programme of research supported by research training and development under the supervision and direction of a Principal Investigator.

The primary purpose of the role is to further develop your research skills and competences, including the processes of publication in peer-reviewed academic publications, the development of funding proposals, the mentorship of graduate students along with the opportunity to develop your skills in research led teaching.

In addition to the Principal Duties and Responsibilities listed below, the successful candidate will also carry out the following duties specific to this project:

- Document the ecosystem services provided by whales
- Develop a Bayesian Belief Network (BBN) Model to illustrate the link between pressures such as ship strikes and acoustic contamination. BBNs are statistical models that return estimates of the probability of a response in a particular variable based on causal relationship modelling between variables within the model.
- Compile associated progress reports and paper/s for publication in a peer-reviewed journals.

Principal Duties and Responsibilities:

- Conduct a specified programme of research and scholarship under the supervision and direction of your Principal Investigator.
- Engage in appropriate training and professional development opportunities as required by your Principal Investigator, your School or Institute, or the University.
- Engage in the dissemination of the results of the research in which you are engaged as directed by and

with the support of and under the supervision of your Principal Investigator.

- Engage in the wider research and scholarly activities of your research group, School and Institute.
- Mentor and assist, as appropriate and as directed, the research graduate students in your group, School and Institute.
- Carry out administrative work associated with your programme of research.

Salary range: €44,847 - €47,412 per annum

Appointment on the above range will be dependent on qualifications and experience

Details on eligibility to compete and pension information is available at

<https://www.ucd.ie/hr/resourcing/eligibilitytocompete/>

UCD is committed to creating an inclusive environment where diversity is celebrated and everyone is afforded equality of opportunity. We welcome applications from everyone, including those who identify with any of the protected characteristics that are set out in our Equality, Diversity and Inclusion policy. Learn more about Diversity at <https://www.ucd.ie/workatucd/diversity/>

Reasonable accommodations will be provided to any applicant during the interview process who discloses they have a disability or are neurodiverse.

Selection Criteria

Selection criteria outline the qualifications, skills, knowledge and/or experience that the successful candidate would need to demonstrate for successful discharge of the responsibilities of the post. Applications will be assessed on the basis of how well candidates satisfy these criteria.

Mandatory:

- PhD in ecology, environmental sciences or ecosystem services.
- Knowledge of ecosystem services frameworks.
- Experience in the construction of Bayesian Belief Network models.
- A demonstrated commitment to research and publications
- An understanding of the operational requirements for a successful research project.
- Evidence of research activity (publications, conference presentations, awards) and future scholarly output (working papers, research proposals, and ability to outline a research project).
- Excellent Communication Skills (Oral, Written, Presentation etc).
- Excellent Organisational and Administrative skills including a proven ability to work to deadlines.
- Candidates must demonstrate an awareness of equality, diversity and inclusion agenda.

The PD1 position is intended for early stage researchers, either just after completion of a PhD or for someone entering a new area for the first time. If you have already completed your PD1 stage in UCD or will soon complete a PD1, or you are an external applicant whose total Postdoctoral experience, inclusive of the duration of the advertised post, would exceed 4 years, you should not apply and should refer to PD2 posts instead.

Desirable:

- Publications on ecosystem services.
- Knowledge of whale ecology.
- Experience in setting own research agenda.

Supplementary information:

The University:	https://www.ucd.ie/
UCD Strategy 2020-2024: Rising to the Future:	https://strategy.ucd.ie/
UCD College of Science:	https://www.ucd.ie/science/
UCD School of Biology & Environmental Science:	https://www.ucd.ie/sbbs/
UCD College of Science:	https://www.ucd.ie/science/
Other (Please specify):	N/A

UCD offers a comprehensive **Research Careers Framework** in line with the Advisory Science Council Report '*Towards a Framework for Researcher Careers*'. This model provides a structured and supportive **Career and Skills Development** system designed to ensure that Post-docs in UCD are able to plan their careers and prepare for future opportunities in academia, industry or the public sector. For more information, please [click here](#)

Informal Enquiries ONLY to:

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