

FELLOWSHIP OPPORTUNITIES WITH A WORLD LEADING SCIENCE FOUNDATION IRELAND AGRI-TECH RESEARCH CENTRE



VistaMilk is actively seeking applications from excellent candidates for the MSCA Postdoctoral Fellowships 2022 Call



VistaMilk welcomes applications from experienced researchers across all strands of the Marie Sklodowska-Curie Actions Postdoctoral Fellowships programme. To secure funding, the candidate must develop a proposal with a supervisor from the host Institute of their choice before the deadline of the **September 14th 2022**.

The objective of VistaMilk SFI Research Centre is to generate and deploy innovative basic and applied science and technologies to better understand and monitor the complex interactions across a highly inter-dependent food-production chain. This objective is achieved by exploring 4 inter-dependent thematic areas (Pasture, Cow, Food and AgTech), bringing together expertise in biological sciences, sensor-systems, communications and networking, data analytics and food processing.

VistaMilk research programme encompasses

PASTURE: Soil nutrient dynamics, Soil carbon sequestration, Sustainable pasture management and production, Pasture breeding programmes

COW: Animal nutrition and fertility, Animal Health and Diseases Diagnostic, Sustainable and accurate animal breeding programmes

FOOD: Next generation dairy processes and products, Digestive characteristics of dairy products and ingredients, Nutrifunctional milk and health benefits for humans

AGTECH: Advanced Sensors & Systems Integration, Communications and Networks, Data, Privacy & Warehousing, Data Analytics, -omics, Test-Beds, Integration and deployment

Researcher eligibility:

We are seeking excellent postdoctoral candidates in all VistaMilk-related disciplines.

Note: The researcher must fulfil the MSCA Postdoctoral Fellowship mobility and experienced researcher requirements as detailed in the [Guide for Applicants, linked here](#).

If you are interested, please contact VistaMilk External Funding Manager, TJ McAuliffe tj.mcauliffe@teagasc.ie



Visit our website
<https://www.vistamilk.ie/eu-funding/>

VistaMilk topic: Pasture

Host institution and supervisors

- Microbial Ecology
- Ecosystems Biology
- Application of Machine Learning to Microbiology
- Proteomics and Metaproteomics

Dr Florence Abram - National University of Ireland, Galway.

Dr Abram has supervised/co-supervised 1 MSc and 11 PhD students to completion and currently supervises 4 PhD students. She has also mentored 3 postdoctoral researchers.

[Google Scholar](#)

- Earth system science
- Environmental chemistry
- Spectroscopy and chemometrics for analysis of agricultural soils, crops and sediments.

Dr Karen Daly - Teagasc Crops, Environment and Land Use Programme, Johnstown.

Dr Daly team consists of 2 post docs, 2 technologists and 6 Ph.D. students and we work across many project. She previously supervised 15 PhD and 1 MSc student to completion and supervised 5 contract researchers/post-doc scientists.

[Research Gate](#)

- Grass growth and sward structure
- N fertiliser
- Agronomy
- Temperature effects on grass & clover growth
- Image analysis in grassland

Dr Deirdre Hennessy – Teagasc Animal & Grassland Research and Innovation Centre, Moorepark.

Dr Hennessy has supervised 1 Postdoc, 8 PhDs and 1 Masters students to completion, and has co-supervised another 9 PhD students to completion. She currently supervises 3 PhD students.

[Research Gate](#)

- Soil nitrogen
- Nitrous oxide
- Precision fertiliser
- Nitrate leaching
- Carbon sequestration

Dr Karl Richards - Teagasc Crops, Environment and Land Use Programme, Johnstown.

Dr Richards has supervised 7 postdocs, 15 PhD and 3 MSc students to completion. Currently his team consists of 2 postdocs and 8 PhDs.

[Google Scholar](#)

HOST INSTITUTION



PARTNER INSTITUTIONS



FUNDED BY:



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VistaMilk topic: Cow

Host institution and supervisors

- Animal genetics and genomics
- Decision support
- Phenotypes
- Genetic evaluations
- Genomic predictions

Prof Donagh Berry - Teagasc Animal & Grassland Research and Innovation Centre, Moorepark.

Donagh Berry currently mentors 5 post-doc and 7 PhD students as primary supervisor. He successfully supervised 28 students and 6 post-docs to completion.

[Google Scholar](#)

- Reproduction
- Nutrition
- Physiology
- Genetics and Sexed semen
- Fertility Management

Dr Stephen Butler – Teagasc Animal & Grassland Research and Innovation Centre, Moorepark.

Dr Butler has supervised 3 post-doc researchers, 8 PhD students and 2 Msc students to completion. Currently, he supervises 2 post-doc researchers and 4 PhD students

[Research Gate](#)

- Calf health
- Calf rearing systems
- Replacement Heifer Rearing

Dr Emer Kennedy – Teagasc Animal & Grassland Research and Innovation Centre, Moorepark.

Dr. Kennedy has supervised 13 PhD students and 2 Masters Students. Currently she supervises 3 PhD and one Masters student as their primary supervisor.

[Research Gate](#)

- Statistical methodology
- High-dimensional data
- Spectral data
- Genomic predictions

Prof. Claire Gormley, School of Mathematics and Statistics, University College Dublin

Prof. Gormley has supervised 5+ PhD students to completion (some interdisciplinary) and 3 postdoctoral research fellows.

[Google Scholar](#)

VistaMilk topic: Food

Host institution and supervisors

- Nutrigenomics
- Metabolomics
- Personalised Nutrition

Prof. Lorraine Brennan - Institute of Food and Health, University College Dublin.

Professor Brennan has supervised 14 PhDs to completion. Her current team consists of 5 PostDocs, 3 Research Assistants, 1 PhD student and 1 Research Manager.

[Google Scholar](#)

- Phage
- SynBio
- Next Gen Sequencing
- Microbial genetics

Dr John Kenny - Teagasc Food Research Centre, Moorepark.

Dr Kenny currently supervises/co-supervises 2 Postdocs, 4 PhD students, and a Research Assistant. He has previously supervised 10 Postdoctoral and 7 Post-Masters level researchers in a commercial setting.

[Google Scholar](#)

- Fermented food microbiology
- Food chain microbiome
- Modulating gut microbiome for health improvements
- Next generation DNA sequencing

Prof. Paul Cotter - Teagasc Food Research Centre, Moorepark.

Dr Cotter has supervised 31 PhDs and 10 MScs to completion and currently supervises 13 Post-docs/research fellows, 5 technologists and 6 PhD students.

[Google Scholar](#)

- Food Bioactives
- Food Digestion and Bioavailability
- Intestinal Barrier Function

Dr Linda Giblin - Teagasc Food Research Centre, Moorepark.

Dr. Giblin has supervised 9 PhD, 10 MSc and 6 Post-doctoral scientists to completion and currently supervises 7 PhD students.

[Google Scholar](#)

- Dairy
- Raman
- Microscopy
- Microstructure

Dr Laura Gómez-Mascaraque - Teagasc Food Research Centre, Moorepark.

Currently supervises 1 post-doc, 4 PhD students and 2 placement students

[Google Scholar](#)

- Food,
- Microbiology
- Biotransformation
- Fermentation
- Waste Valorisation

Dr Olivia McAuliffe - Teagasc Food Research Centre, Moorepark.

Dr. McAuliffe has supervised to completion 12 PhD and 8 MSc students, She currently supervises 4 PhD students and 2 postdoc researchers.

[Linkedin](#)

VistaMilk topic: Food

Host institution and supervisors

- Dairy Science and chemistry
- Food processing
- Impact of animals primary production systems on product characteristics and functionality
- Nutritional formulations
- Food metabolomics

Dr Tom O’Callaghan, University College Cork.

Dr O’Callaghan supervises 2 PhD and 1 MSc students. He previously supervised 3 PhD students, 1 Research Officer and 1 Postdoc.

[Google Scholar](#)

- Process analytical technologies in dairy
- Heat induced protein structural changes
- Low cost sensors
- 3D dairy printing
- Robotics in food applications
- Protein/starch relationships in dairy & cereal structures

Dr Norah O’Shea- Teagasc Food Research Centre, Moorepark

Currently, Dr O’Shea is supervising three Post-doctoral researchers, primary supervisor of four PhD students and co-supervisor of one 1 PhD and MSc student

[Research Gate](#)

- Bioinformatics
- Metagenomics
- Microbiome
- Statistics
- Nutrition

Dr Orla O’Sullivan - Teagasc Food Research Centre, Moorepark

Dr O’Sullivan currently has 3 PhD students and 2 Postdocs under her direct supervision as well as MSc placement students.

[Google Scholar](#)

- Nutrition
- Nutrigenomics
- Tissue growth and communication
- Neuro-endocrine system

Dr Kanishka Nilaweera - Teagasc Food Research Centre, Moorepark.

Dr. Nilaweera has supervised 3 PhD students and 2 Postdocs, and through collaborative work established how diet impacts on growth covering the detailed areas of expertise (see project <https://osf.io/g432n/>).

[ORCID](#)

- Dairy Food Structure-function
- Food structuring and Casein-plant polymer or protein interactions
- Sustainability and cheese manufacture and ripening
- Small solute entrapment and diffusivity within cheese matrices

Dr Diarmuid Sheehan - Teagasc Food Research Centre, Moorepark.

Dr. Sheehan currently supervises 4 Postdocs, 3 PhD students and 5 Research and Analytical staff. He has previously supervised/co-supervised 9 Postdocs, 9 PhDs and 1 MSc to completion.

[Google Scholar](#)

VistaMilk topic: AgTech

Host institution and supervisors

- Chemical and biochemical sensors
- Advanced nanosensor fabrication
- Nanomaterials chemistry
- System integration
- Remote, in—field deployment

Dr. Alan O’Riordan - Tyndall National Institute, Cork.

Dr Alan O’Riordan leads a team of 18 researchers comprising of 9 PhDs, 6 Post-docs and support staff. He has graduated 12 PhD students, 2 MSc students and 6 previous Post Docs.

[Google Scholar](#)

- Electrochemical Gas and Liquid Sensors
- Electrochemical simulation
- Electrode design, Microfabrication and Integration
- Electrolyte integration and test optimisation

Dr James Rohan - Tyndall National Institute, Cork.

James Rohan He has supervised 8 Ph.D. and 8 M.Sc. students to completion and 13 post-doctoral researchers.

[ORCID](#)