

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



VistaMilk is actively seeking applications from excellent candidates for the 2019 Marie Sklodowska Curie Fellowship call



VistaMilk welcomes applications from experienced researchers across all strands of the Marie Sklodowska-Curie Individual Fellowships scheme. To secure funding, the candidate must develop a proposal with a supervisor from the host Institute of their choice by 11th September 2019.

The objective of the 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. The objective is achieved by exploring 3 inter-dependent thematic areas (i.e., Pasture, Cow and Food) bringing together expertise in the biological sciences, sensor-systems, communications and networking, data analytics, and food processing.

VistaMilk research programme encompasses (*further detail overleaf*):

<p>PASTURE: Soil nutrient dynamics, Sustainable pasture management and production, Pasture breeding programmes</p>	<p>COW: Animal nutrition and fertility, Animal Health and Diseases Diagnostic, Sustainable and accurate animal breeding programmes</p>
<p>FOOD: Next generation dairy processes and products, Digestive characteristics of dairy products and ingredients, Nutrifunctional Milk and health benefits for humans.</p>	<p>AGTECH: Advanced Sensors & Systems Integration, Communications and Networks, Data, Privacy & Warehousing, Data Analytics, -omics, Test-Beds, Integration and deployment</p>

Researcher eligibility:

We are seeking excellent postdoctoral candidates in all VistaMilk-related disciplines. The researcher must fulfil the Marie Curie – Individual Fellowship mobility and experienced researcher requirements as detailed in the [Guide for Applicants](#).

If you are interested, please contact guillaume.lepalud@teagasc.ie or any one of our researchers listed overleaf



Visit VistaMilk website at www.vistamilk.ie

VistaMilk research topics

Host institution and supervisors

- Nano and Molecular Communications
- Internet of (Nano) Things
- Bio-inspired Communication systems
- 5G Terahertz communications

Dr Sasitharan Balasubramaniam - Telecommunication Software and Systems Group, Waterford Institute of Technology.

Sasitharan has graduated 7 PhD students, and is currently supervising 5. He is also supervising 3 postdoctoral research fellows, including one Marie-Curie EDGE fellow.

[Google Scholar](#)

- 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](#)

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

Dr Paul Cotter - Teagasc Food Research Centre, Moorepark.

Paul Cotter has supervised 24 PhDs and 10 MScs to completion and currently supervises 9 Post-docs/research fellows, 11 PhD students and 2 technicians.

[Google Scholar](#)

- Grass growth and sward structure
- N fertiliser
- Agronomy
- Grassland decision support tools
- Temperature effects on grass and clover growth

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

To date, Deirdre Hennessy has supervised 1 Postdoc Researcher; 6 PhD and 1 Masters students to completion; She currently supervises 3 PhD students.

[Research Gate](#)

- Explainable AI (XAI)
- Smart Ag Decision Support Systems
- Psychology of Explanation & Surprise
- Text Analytics

Prof Mark Keane – Insight Centre for Data Analytics, University College Dublin.

Over his 30 years research experience, Mark Keane has supervised more than 25 PhDs and MScs.

[Google Scholar](#)

- Nanomaterials & nanofabrication
- Smart nanoelectrochemical sensor systems for soil, plant and animal health applications
- Surface enhanced Raman spectroscopy
- Chemical and biochemical sensors
- Molecular diffusion simulations

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

Alan O’Riordan currently leads a group of 18 researchers . He has previously graduated 9 PhDs and 5 MSc students.

[Google Scholar](#)

- Bioinformatics
- Metagenomics
- Microbiome
- Statistics
- Nutrition

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

Orla O’Sullivan has extensive experience both in mentoring staff and students. Currently she has 3 PhD students and 2 post-doc under her direct supervisions as well as MSc placement students.

[Google Scholar](#)

- Environmental, soil and water contaminants
- Nitrogen cycling
- Greenhouse gas emissions
- Leaching
- Pathogens

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

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

[ORCID](#)

- Electrochemical Sensors
- Electrochemical simulation
- Electrode design
- Microfabrication

Dr James Rohan - Tyndall National Institute, Cork.

James Rohan has previously supervised 6 Ph.D. and 7 M.Sc. students to completion as well as 13 post-doctoral researchers.

[ORCID](#)

- Early life nutrition
- Probiotic cultures
- Gut microbiota
- Bioactive lipids

Prof Catherine Stanton - Teagasc Food Research Centre, Moorepark.

Catherine Stanton currently supervises 8 Post-docs and 10 PhD students with 11 previous Post-docs and 22 PhD students.

[ORCID](#)

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An Roinn Talmhaíochta,
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