SFI Public Service Fellowship 2023

1. **Name of Governmental Department or Agency**
Department of Agriculture, Food and the Marine
2. **Title of the Project**
DAFM1 Antimicrobial Resistance - A One Health Policy Gap Analysis specific to AMR and assessment of how policy-relevant scientific research can better influence design of AMR policy interventions
3. **Description of the Project**
Antimicrobial Resistance (AMR) is a global public health challenge that threatens advances in modern medicine. Over the past decade, AMR has been recognised by the World Health Organisation, the World Organisation for Animal Health, the Food and Agricultural Organisation and the United Nations Environment Programme as a critical public health, animal and plant health and environmental threat. Policy responses to AMR as a result of legislative requirements and government regulation, and stakeholder leadership and engagement have played a major role in Ireland's response to AMR, under the framework of Ireland's National Action Plan to address AMR (iNAP2). In the context of AMR, interventions refer to all strategies, tools, programmes and actions that prevent or reduce the incidence, prevalence and dissemination of AMR. This can be through measures including infection prevention and control, promotion of responsible antimicrobial use and promotion of vaccine uptake. Tackling the threat of AMR requires a One Health approach when designing and implementing policy interventions, reflecting the importance and interconnectedness of human health, animal and plant health, and the environment. The complexity of this One Health concept presents a challenge for policymakers, and it is likely that policy and implementation gaps remain. This project aims to identify policy gaps across and between the various One Health sectors relevant to the national effort to combat antimicrobial resistance. Furthermore, this project seeks to also identify how science can be better utilised to inform and influence policy in the One Health AMR space. Identifying a framework that will enable policy-relevant scientific research findings to better inform policy is a key output that will support any current gap.
4. **Project Scope**
Task 1: Conduct an analysis of policies and interventions in place across and between the various One Health sectors relevant to the national effort to combat AMR. Task 2: Identify policy and intervention gaps across and between the various One Health sectors relevant to the national effort to combat antimicrobial resistance.

Task 3: Conduct an in-depth analysis of how science currently informs policy in the One Health AMR space.
Task 4: Identify how science can better inform and influence policy in the One Health AMR space to include the development of a framework that will enable policy-relevant scientific research findings to better inform AMR policy.
Task 6: Make recommendations for future national AMR policy strategy.

5. Skills/Expertise Required

Be able to demonstrate:
• Expertise in a Science discipline;
• Strong research and analytical skills with excellent attention to detail;
• Strong editorial skills and the ability to write and present research in a concise, accessible and plain English style;
• Excellent communication, interpersonal and team working skills;
• Strong information technology skills particularly using relevant research databases and online resources.
Desirable interest and experience include:
- Knowledge of Microbiology, Biology Sciences
- Knowledge of EU policy frameworks and national policy frameworks
- Data visualisation skills (e.g. infographics)

6. Expected Outputs of Project

Identify policy and intervention gaps across and between the various One Health sectors relevant to the national effort to combat antimicrobial resistance.
Make recommendations for future national AMR policy strategy.
Identify how science can better inform and influence policy in the One Health AMR space. Develop a framework that will enable policy-relevant scientific research findings to better inform AMR policy.

7. Working Arrangements

Office location: Department of Agriculture, Food and the Marine, Administration Building, Backweston Campus, Youngs Cross, Celbridge, Co. Kildare

Attendance: DAFM's remote working policy is under revision but minimum attendance of one anchor day in the office per week is required for the Fellow

Office: Designated desk in an open-plan office

8. Expected Timeline

12 months full-time

9. Contact Details

Zara Conlon, Antimicrobial Resistance Section, Department of Agriculture, Food and the Marine.