

PROPOSED JOB PROFILE 2026

Lecturer in Regulated Diseases and Zoonoses

Department of Assignment: Livestock Health and Public

Health Teaching Unit of Assignment: Infectious Diseases—Regulated Diseases and Zoonoses

Research Unit of Assignment: UMR INRAE-Oniris Biology, Epidemiology, and Risk Analysis in Animal Health

JOB DESCRIPTION

- **Institution:** Oniris VetAgroBio Nantes
- **Recruitment Grade:** MC
- **CNECA Section:** 7
- **Fields to be filled:** Veterinary Public Health: Regulated Diseases – Zoonoses
- **Renoirh Number:** A2ONI00352

REASONS AND GENERAL OBJECTIVES

Oniris is a higher education institution under the supervision of the Ministry of Agriculture, Agri-Food, and Food Sovereignty that trains veterinarians and agri-food engineers. Its areas of expertise include animal health and welfare, as well as veterinary public health.

In the current context of globalization and climate and environmental change, regulated animal diseases represent a major challenge. They can have serious repercussions on animal health and the economy of livestock sectors, and even on human health and food safety, and are therefore the focus of increased attention from international health organizations and national authorities. On the ground, veterinarians play an essential role. They participate in the implementation of prevention, surveillance, and control programs—tasks that require close coordination and are partly entrusted by the government to public health veterinarians as part of their public health authorization and mandate.

It is therefore essential to provide future veterinarians with a solid education that enables them to acquire the knowledge and skills necessary to contribute fully to animal health and veterinary public health. Beyond the regulatory aspects of this education—which is closely linked to other disciplines such as epidemiology, health economics, microbiology, immunology, clinical sciences, and food safety, this education incorporates the One Health approach to promote an understanding of the close interactions between animal health, human health, and ecosystems—an understanding that is essential for the prevention and control of animal diseases.

The management of infectious diseases at the animal population level is based on knowledge and methods derived from research, particularly in epidemiology. In this context, research in epidemiological modeling is experiencing significant growth. Epidemiological models make it possible to predict the epidemiological course of an emerging or re-emerging infectious disease and to evaluate the effectiveness of sanitary and/or medical measures implemented to control it. These epidemiological models are indispensable tools in supporting public policies for the prevention, surveillance, and management of infectious animal diseases, whether zoonotic or not.

Oniris's location at the heart of livestock production regions offers opportunities for collaboration on epidemiology and modeling research projects with local stakeholders. The UMR BIOEPAR's reputation in livestock health management—and more specifically in epidemiological modeling—is recognized both nationally and internationally.

MISSIONS

Teaching

The hired EC will participate in the initial training of veterinary students in the field of surveillance, prevention, and control of regulated animal diseases and zoonoses. This teaching activity includes theoretical, guided, and practical instruction as part of the infectious diseases teaching team within the Department of Livestock Health and Public Health.

The lecturer's mission will be to help update existing course content in the discipline, design new teaching approaches, and develop innovative teaching materials that promote dynamic and engaging learning.

The EC will be responsible for the teaching units (UE) as well as for the pre-certification training sessions (FPHS)—supplementary training organized at each veterinary school (ENVF) at the request of the DGAL for the training of veterinary public health officers, intended for both ENVF students and veterinarians who graduated abroad and wish to practice in France.

In line with its research focus, the EC will collaborate closely with the One Health Emerge master's program team to develop courses that incorporate the "One Health" approach and address challenges related to existing and emerging health risks from vector-borne diseases.

For all of these educational activities, expertise in pedagogy and information and communication technologies for teaching will be highly valued.

Research: Modeling the Surveillance and Control of Vector-Borne, Zoonotic, and Regulated Diseases to Support Decision-Making

The research assignments of the recruited EC will be carried out within the BIOEPAR Joint Research Unit (UMR), Dynamo team, and will focus specifically on infectious diseases that pose a threat to animal or public health, particularly vector-borne, zoonotic, or regulated diseases. The Dynamo team works on mechanistic modeling methods in animal health and their applications to understand, predict, and control infectious diseases. In the short term, the research associate will develop or adapt models of vector-borne diseases, including control and surveillance strategies, in alignment with the team's projects. Through their veterinary expertise, the research associate will strengthen the team's ability to remain closely connected to the field. In the medium and long term, the research fellow will contribute to the development of a collaborative network with other epidemiology units, with a view to supporting public policy, in order to anticipate or respond to health crises at the interface between modelers on the one hand and policymakers, livestock farmers, veterinarians, wildlife managers, and health risk managers on the other.

The EC's work will complement the unit's research on modeling that links intra-host or intra-vector scales with population-level scales, as well as the modeling challenges organized to improve preparedness for public health crises. In the short term, the EC will be able to contribute to ongoing research programs (the European WiLiMan-ID project) and quickly apply for funding specifically for early-career researchers (PULSAR, Pays de la Loire Region), or funding focused on technical developments (Institut Carnot France Futur Élevage) and scientific advancements (PEPR MIE/PREZODE). The EC will then be able to participate in responses to national and international calls for proposals (AGRALIFE, EUP-AHW) in collaboration with senior researchers from the UMR and its collaborative network.

The EC will also be committed to mentoring interns, doctoral students, and postdoctoral researchers as part of its mission to provide training in and through research

PROFILE

You must hold a Ph.D. in the field of modeling applied to the life sciences or an equivalent degree, and be a Doctor of Veterinary Medicine or hold an equivalent degree that qualifies you to practice veterinary medicine in France. You must possess teaching skills, be fluent in English, and enjoy working as part of a team in a highly interdisciplinary environment, with a particular interest in science communication. Knowledge of regulated animal diseases, zoonoses, and general health regulations is required. Research experience in the field of vector-borne disease modeling is preferred.

CONTACT PERSONS:

- Teaching:

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