

An action of the



The “Institut d’enseignement et de recherche en alimentation santé animale, sciences agronomiques et de l’environnement”
-VetAgro Sup-
recruits

HOLDER OF THE
INDUSTRIAL CHAIR IN VETERINARY PUBLIC HEALTH
(Man/Woman)



Presentation of the professional environment

Two and a half centuries after Claude Bourgelat founded the world's first veterinary school, and thanks to the excellence of its ecosystem in veterinary public health, infectiology and vaccinology, Lyon continues to innovate: Aware of the need to take into account the ecosystem and societal dimensions to build a health strategy in both animal and human health, the public and private partners of the regional health ecosystem have mobilized to create the **1st International Hub for Veterinary Public Health (VPH Hub)** in January 2020. The challenges of veterinary public health (VPH), defined as all actions that are directly or indirectly related to animals, their products and by-products, as long as they contribute to the protection, conservation and improvement of human health, i.e. physical, moral and social well-being, are indeed increasing worldwide. The VPH Hub thus aims to catalyze the knowledge, research, innovation, education and industrialization gathered around this subject in the Auvergne-Rhône-Alpes region.

In 2020, the "VPH Hub" gave impetus to the creation of an **IDEX-Lyon Industrial Chair in Veterinary Public Health (VPH Chair)**. This initiative, supported by Boehringer Ingelheim, the CNRS, Claude Bernard Lyon 1 University and VetAgro Sup, is part of the IDEX Lyon¹ project's "Biosanté & Société" axis, and reflects the desire of its sponsors to make Lyon an international reference in veterinary public health in terms of training and research. This chair aims to create an interdisciplinary dynamic based on a broader vision of public health ("One Health" approach) and to promote veterinary public health by creating transdisciplinary training courses for diverse and international audiences and by research through the implementation of projects based on eco-epidemiology and socio-economics applied to intervention plans in animal health and the development of decision support tools for public authorities and industry. The VPH Chair is based on a dense academic and industrial network in infectiology and vaccinology, as well as on the structuring of the regional ecosystem around the One Health concept, with animal health surveillance networks², particularly within the framework of Labex Ecofect³ and the SAARA research network⁴, allowing for trans-disciplinary approaches.

The person recruited as VPH Chairholder will join the Biometry and Evolutionary Biology Laboratory⁷ under the supervision of CNRS, UCBL and VetAgro Sup. Built around three pillars consisting of biometry (understood as the set of informatic, statistical and mathematical formalisation tools of biological problems), evolutionary biology and health, this laboratory offers an ideal environment for the development of interdisciplinary projects at the

¹ IDEX label of the University of Lyon <https://idexlyon.universite-lyon.fr/idexlyon/version-anglaise/idexlyon-en-9416.kjsp?RH=idexvf>

² National Platform for Epidemiological Surveillance in Animal Health <https://www.platorme-esa.fr/#> and epidemio-surveillance network for the anti-bio-resistance of animal pathogenic bacteria <https://resapath.anses.fr/>

³ Laboratory of Excellence Eco-Evolutionary Dynamics of Infectious Diseases <https://ecofect.universite-lyon.fr/>

⁴ ANSES, INRA and VetAgro Sup thematic research network for animal health in the Auvergne-Rhône-Alpes region in the fields of epidemiology, infectiology, metabolic and neurodegenerative diseases, physiology and ethology. https://www6.ara.inra.fr/umr754-ivpc-lyon_eng/News/SAARA

	methodology/biology interface in eco-infectiology. The laboratory is also co-holder of the Labex Ecofect. The person recruited will work in the Department of Evolutionary Ecology, one of the unit's four departments, and will be able to rely as much on calculation resources as on the technical tools of the laboratory (molecular biology, biochemistry, imaging) or of the BioEnviS ⁸ research federation (I2P2/I3P3 Symbiotron platform; Pôle Rhône Alpin de Bioinformatique...).
Objectives of the position	<p>The VPH Chairholder will be responsible for the proper coordination of all of the Chair's activities, its facilitation and the achievement of the expected deliverables in terms of research, training and transfer regarding recommendations and field application, particularly for Boehringer Ingelheim.</p> <p>The chairholder will thus be the contact person for the VPH steering committee, which includes Boehringer Ingelheim, the CNRS, the Claude Bernard Lyon 1 University and VetAgro Sup.</p>
Description of the missions to be carried out	<p><u>Research</u></p> <p>The research program of the VPH Chair is based on initial objectives at 3 years, but is also on a trajectory of 5 and 10 years. In the short term, the person recruited will be in charge of focusing on the development of eco-epidemiological models of the foot and mouth disease virus aimed at predicting the risks of introduction into Europe and identifying the best strategies for responding to this possible introduction.</p> <p>This modelling work targeted at foot-and-mouth disease will ultimately make it possible to develop decision-support tools based on dynamic scenarios of the evolution of environments, viruses and their hosts in order to prioritise control and prevention plans. The existing organisation of field actors will be taken into account, as well as their involvement in the different phases of development, testing and use of management tools (participatory approaches).</p> <p>In the medium and long term, the development of generic or targeted models on other animal health threats (e.g. African swine fever) and coupling socio-economic impact and eco-epidemiology is to be considered.</p> <p><u>Transfer:</u> The models and decision support tools developed are of major interest to the animal health industry and are directly transferable to Boehringer Ingelheim. They will also be essential for communities and decision-makers faced with emerging health risks.</p> <p><u>Training</u></p> <p>The aim of the VPH Chair is to identify Lyon as "the" place for international training of veterinary public health decision-makers, in coordination with other international initiatives where appropriate. The person recruited will therefore be heavily involved in the creation of an international Master's degree (with the support of a teaching engineer and some of the site's training courses or modules, such as the ENSV-FVI⁹ courses, the site's existing Master's degrees, the University Diploma in Evolutionary Biology and Medicine, and the actuarial science courses offered by ISFA¹⁰) to train future professionals and researchers capable of developing quantitative integrative tools to support the work of VPH decision-makers.</p> <p>The person recruited will also be in charge of coordinating the creation of short training courses (possibly leading to certification) of the "summer courses" type in these fields, at the ENSV-FVI, an OIE collaborating centre, at a distance and/or face-to-face, on topics such as: crisis management, surveillance and diagnosis, etc.</p>

⁷ <https://lbbe.univ-lyon1.fr/>

⁸ Bio-environment and Health Research Federation <http://bioenvis.universite-lyon.fr>

⁹ National School of Veterinary Services - France Vétérinaire International, internal school of VetAgro Sup <http://www.ensv.fr/>

¹⁰ Institute of Financial Science and Insurance <https://isfa.univ-lyon1.fr/>

Job environment	<p>The Chairholder will be recruited by VetAgro Sup, housed on the VetAgro Sup veterinary campus and in regular interaction with the Director of the joint unit LBBE to which he/she will be attached, the Director of R&D at Boehringer Ingelheim and the ENSV-FVI of VetAgro Sup.</p> <p>For the "research and transfer" component, the chairholder will have a budget enabling him/her to recruit 3 PhD students and 1 post-doc and will have at his/her disposal the LBBE's equipment and platforms. He/she will also be able to draw on Boehringer Ingelheim's internal resources (staff, data and networks).</p> <p>As far as training is concerned, he will be able to rely on the dedicated staff recruited for the chair by VetAgro Sup, i.e. a teaching engineer and an assistant, both of whom are based at ENSV-FVI.</p> <p>Finally, in order to carry out all of his or her missions, the Chairholder will rely on the support of the local community, particularly in terms of knowledge of the local network, and will report to the Chair's governing bodies (steering, scientific and pedagogical committee).</p>
Required profile	<p>The expected profile for this recruitment is a scientist with a strong legitimacy that will enable him/her to drive a dynamic on the Lyon site and beyond and to federate a large community around transdisciplinary programs.</p> <p>The candidate should have significant experience in research and development of statistical and dynamic methods and models applied to epidemiology and veterinary public health. He/she should have proven skills in project management, coordination of research work, and experience in conducting interdisciplinary research in relation to socio-economic issues.</p> <p>Knowledge in the design and application of regulations in the field of animal health protection (definition and application of control methods against the main health hazards) and veterinary public health will be appreciated.</p> <p>Ideally, the person recruited should also have contributed to training programmes (in particular through knowledge of the industrial environment).</p> <p>The candidate should have a network of both academic and socio-economic partners at the international level to facilitate the achievement of the VPH Chair's objectives.</p> <p>The candidate must be fluent in English. The candidate must be comfortable and motivated to work in a predominantly French-speaking environment.</p>
Conditions	<p>Fixed-term contract under public law for 3 years from the date of recruitment.</p> <p>Quota: 100%</p> <p>Salary: depending on previous experience and background</p>
How to apply	<p>Application (CV and cover letter) to be sent by email to VetAgro Sup's Human Resources department at</p> <p>recrutement.veto@vetagro-sup.fr</p> <p>before March 30, 2020</p>
Contacts	<p>Direction of LBBE : M. Fabrice VAVRE (Deputy Head of Unit) Fabrice.Vavre@univ-lyon1.fr</p> <p>Direction of Boehringer Ingelheim : M. Nigel SWIFT (R/D Director) nigel.swift@boehringer-ingelheim.com</p> <p>Direction of VetAgro Sup : Mme Estelle LOUKIADIS (Chief scientific officer) estelle.loukiadis@vetagro-sup.fr Mme Nathalie GUERSON (ENSV-FVI Director) nathalie.guerson@ensv.vetagro-sup.fr</p>