Post-doctoral position: Economic/econometric Evaluation of policies targeting the reduction of antibiotics in animal agriculture in Europe

Project duration
12 to 24 months

The project
The candidate will contribute to an ambitious research project aiming at creating an evaluation model of the economic impact of public policies in animal agriculture, targeting the reduction of antibiotic use (https://www.roadmap-h2020.eu/). She/he will be part of a working package funded by a European project, gathering 9 universities across the E.U. The objective of the post-doctoral position is to analyze antibiotic use abatement options in several animal production sectors and countries. Original dataset containing accounting data, production data description and antibiotic use data will be used.

Many health management options are available to protect and cure the livestock, which in some cases include the use of antibiotics or the implementation of alternative practices. All these practices imply direct and indirect cost to the farms, to the food and drug supply chains, as well as to the public health. The researcher will address these aspects by using data and information collected earlier within the research project. Cost-effectiveness analysis will be performed on each viable intervention and where there are multiple interventions for a livestock sector these will be generated into a marginal abatement cost curve. The marginal abatement cost curves will help to prioritize health actions according to their implementation costs and the marginal benefit they bring to the health of herds, the competitiveness of animal sectors and public health. The results will help to define regulations and incentive schemes so that the antimicrobial use in animals. The results will help to define a set of public incentives for health practices that allow limited use of antibiotics and support livestock farmers' incomes.

Your profile
Applicants should have recently obtained a Ph.D. in Economics (or should be near completion of the dissertation) and should have shown interest in agricultural or environmental fields. The candidate should have an excellent research background in computer science, data science, and economics. An experience in marginal abatement curves and/or structural econometrics would be welcome. Excellent mathematical and computational skills, English language skills, social skills, and international experience are required.

Your benefits
The Postdoctoral research will benefit from our agile management system, and will have the opportunity to participate in many research activities (seminar series, conferences) and attend executive education sessions. Salary will be commensurate to experience, and benefits (health and vacations) follow French regulations.

Our group

We are an enthusiastic group of researchers dedicated to the improvement of livestock and farmers well-being. We use innovative analytical tools to address modern challenges of economics of animal health:

- Assessing human decision-making with empirical and data-driven work
- Evaluating the effects of public policies in the animal health sector, at micro and macroeconomic scales
- Working transdisciplinary by combining computer science, systems approaches, epidemiology and economics.
- Understanding epidemic dynamics, using modelling and computer simulation of complex animal and human interactions

We are based on the gorgeous campus of the National Veterinary School of Toulouse. Our research team is integrated to The French National Research Institute for Agriculture, Food, and the Environment (INRAE), which is a public research establishment under the dual authority of the Ministry of Agriculture and the Ministry of Research. The institute is among the world leaders in agricultural and food sciences, in plant and animal sciences, INRAE's main goal is to be a key player in the transitions necessary to address major global challenges.

Find more:

http://www.envt.fr/

https://epidec.weebly.com/

https://medpopbov.envt.fr/

Interested?

We look forward to receiving your online application in a single pdf with the following documents: a letter of motivation, your CV, university transcripts, two academic references.
Please send the documents to:
guillaume.lhermie@envt.fr didier.raboisson@envt.fr

Application close: 31 June 2020. *Due to Covid-19 situation, the selection process will start before dead line. We consequently invite candidates not to wait for application closure for at least first contacts.*

The position is ideally planned to start in September 2020. This is subject to changes, due to the international Covid-19 situations, and we will be comprehensive with constraints that apply to international candidates.