



## Full-time Post-doctoral fellowship in Economics

### Pesticide-Use Regulations in a Global Economy

The research unit [SMART](#) (INRAE & Institut Agro, Rennes, France) is offering a 12 months Post-Doctoral position starting September 1<sup>st</sup>, 2023 (flexible, earlier or later). This position comes with no teaching nor administrative duties.

**Job description.** The project aims at investigating the impact of more stringent regulations on pesticide use in open economies. More stringent domestic standards may shift production to locations with more permissive environmental regulation and encourage the consumption of imported products ('pesticide' leakage). How best to address the environmental sustainability of domestic production processes in a global economy? The selected candidate will study the effects of regulations in terms of pesticide use, expressed in national standards and trade policies (mirror clauses), on food production, price and welfare using a quantitative trade model with endogenous choice of the farming system (pesticide-free vs conventional) and vertical differentiation, and employing different databases. She/he will also compute counterfactual analyses to quantify the impact of different regulations.

The post-doctoral fellow will work under the supervision of [Angela Cheptea](#) and [Carl Gaigné](#). The research fellow will be affiliated to the research unit SMART, which provides a high quality research environment. The research program is financed by and is part of the ANR research project [FAST](#).

**Required qualifications:** PhD in International Economics, or Agricultural Economics, or a closely related field (applicants must have obtained their PhD when taking up the position). Experience in micro-econometrics or/and good knowledge of quantitative trade models (structural gravity and hat-algebra approaches) would be a strong asset.

**Salary, facilities and research funds:** We offer 2,090 € to 2,440 € net per month, depending on experience, up to 45 days of annual leave, and up to 144 days of remote working days. The successful applicant will be provided with office space and computer facilities, as well as a research budget. He/she will receive a bicycle allowance or reimbursement of half of commuting costs with public transportation.

**Procedure.** Interested candidates should send their application by email to Angela Cheptea ([angela.cheptea@inrae.fr](mailto:angela.cheptea@inrae.fr)) and Carl Gaigne ([carl.gaigne@inrae.fr](mailto:carl.gaigne@inrae.fr)). The application should include a CV, a job market paper, and 1-2 recommendation letters. All documents can be either in French or English. Applications will be evaluated on a rolling basis from February 1<sup>st</sup>, 2023.

**Contacts:** For further details, candidates can contact Angela Cheptea and Carl Gaigné.