



*IEES Paris*

Institute of Ecology and Environmental Sciences Paris

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## **Postdoctoral position in Insect olfaction**

The ECOSENS Department of the Institute of Ecology and Environmental Sciences is opening a 2-year position to investigate the interactions of an odorant background with perception and sensory coding of pheromone signal in a moth.

The ANR project “ODORSCAPE” aims to investigate the effects of factors of climatic change on the emissions of volatile plant compounds and their impact on olfactory communication in a phytophagous insect. In this context, the Post-doctoral fellow will investigate the effects of reconstituted mixtures of VPCs designed by plant physiologists on detection and sensory coding of sex pheromone by the olfactory system of male moth. After electrophysiological extracellular recordings of olfactory neurons in antennae and antennal lobe, he will analyze firing activity in response to presentation of pheromone in different background patterns. He will investigate how those odor backgrounds alter the temporal, quality and intensity coding of pheromone signal. Behavioral correlates will be followed by with 3d trajectometry in a wind tunnel to analyse change in flight responses to pheromone sources according to background.

This position will be opened on February 2017. The research will be performed at INRA Versailles in a multidisciplinary group working on insect olfactory. Gross salary is € 2310 to € 2830 monthly based on experience.

We are looking for a dedicated fellow with a PhD, with expertise in experimental neurobiology, especially electrophysiology. Candidates with solid knowledge of experimental design, and statistical analysis of neuronal activity and programming skills will be preferred. Previous experience in chemical ecology, insect sensory physiology, or olfaction would be positively appreciated.

To postulate send CV and letter of motivation to Michel Renou ([michel.renou@inra.fr](mailto:michel.renou@inra.fr)) or Philippe Lucas ([philippe.lucas@inra.fr](mailto:philippe.lucas@inra.fr)). Dead line for application is on December, 31 2016.