



## Internship in applied insect behaviour Six months for Master 2, engineer

From March to August 2025

At Entomological lab of ANPN, France, Cancon (47)

Accommodation and scholarship provided.



### Screening of repellent compounds against the two main pest of French hazelnuts: the brown marmorated stink bug, *Halyomorpha halys*, and the European hazelnut weevil, *Curculio nucum*



In Europe, *Curculio nucum* is the main pest of hazelnuts. Adults drill shells to feed and/or to deposit eggs. Feeding activities lead to aborted embryos and larvae feed on kernel, in both cases, empty nuts are harvested. **Without treatment, 80% of yield can be lost.** Unlike the weevil, *Halyomorpha halys* only feeds from the hazelnut. However, despite treatment, **30% of hazelnuts can be damaged.**

Compounds or natural products could disrupt the behaviour of both pests. **Candidate products have already been tested in 2024, with promising results.** The aim of the study is to (1) evaluate the dose-response of the products, alone or in combination with new products (synergist effect), (2) test the formulations under field conditions, and finally, (3) to assess the putative phytotoxicities of formulations. In addition, the putative anti-oviposition pheromone of *C. nucum* could be assessed.

**Profil required:** Rigor, autonomy, curiosity and critical sense; Knowledge in chemistry and/or in insect ethology would be an asset. Personal car recommended for travel in the countryside.

**Contact:** To apply, send your application (CV and cover letter) to Rachid Hamidi: [rhamidi@anpn.eu](mailto:rhamidi@anpn.eu); Tel : 05 53 01 67 70; [www.anpn.eu](http://www.anpn.eu)