

Join ISSF and shape a sustainable future through insect science!

Insects play a pivotal role in environmental sustainability, agriculture, technology, and public health, offering innovative solutions to global challenges.

Insects as Solutions for a Sustainable Future (ISSF) is a brand-new Erasmus Mundus Joint Master programme exploring how insects drive innovation and sustainability across ecosystems, industries, and health.

ISSF trains a new generation of experts in insect sciences, equipping them with versatile, crossdisciplinary skills to thrive in diverse global job markets.

Why Choose ISSF?

- **Joint degree** awarded by 4 top European universities: Université de Tours & Université d'Orléans (France), KU Leuven (Belgium), Universidade Nova de Lisboa (Portugal)
- **Unique mobility path** across 3 European countries with full integration of courses and cultures
- **Teaching by leading academics and industry professionals**
- **Access to state-of-the-art infrastructures**
- **60+ international partners** from academia, industry, NGOs, and government bodies
- **Erasmus Mundus scholarships** covering tuition, travel, and living costs. **ISSF** is also open to self-funded students.
- **ISSF** is open to **students from all countries and backgrounds** and fosters an inclusive, equitable and collaborative environment.



Insects as Solutions for a Sustainable Future



Immersive Learning Environments

Experience world-class infrastructures unique to **ISSF**:

- **The Insect Canopy Observatory** – biodiversity & ecosystem research in natural settings
- **The Insect Pilot Plant** – large-scale insect production and industrial applications
- **The In Vivo Arthropod Security Facility** – frontier research in vector biology and public health

Learning Outcomes

ISSF graduates will :

- Master the **biology, ecology, and applications** of insects across natural and industrial systems
- Acquire **research, innovation, and entrepreneurial skills** for sustainability-oriented careers
- Develop **cross-cultural communication and leadership** through European mobility and multilingual experience
- Conduct an **independent Master's** thesis in academia or industry anywhere in the world



Three Integrated Specialties

- 1. Insects in Eco- and Agrosystems** – Université de Tours & Université d'Orléans
→ Biodiversity, conservation, sustainable agriculture, pest management
- 2. Insects in Industry** – KU Leuven Geel Campus
→ Circular bioeconomy, insect production, biotechnology, innovation and entrepreneurship
- 3. Insects and Health** – Universidade Nova de Lisboa
→ Medical and veterinary entomology, vector-borne diseases, One Health approaches





Career Opportunities

By bridging science, innovation, and sustainability, the graduates of the **ISSF** Erasmus Mundus Joint Master will emerge as global leaders in insect sciences, ready to shape the future of biodiversity conservation, sustainable agriculture, biotechnology, ecosystem resilience and public health.

Graduates are trained in

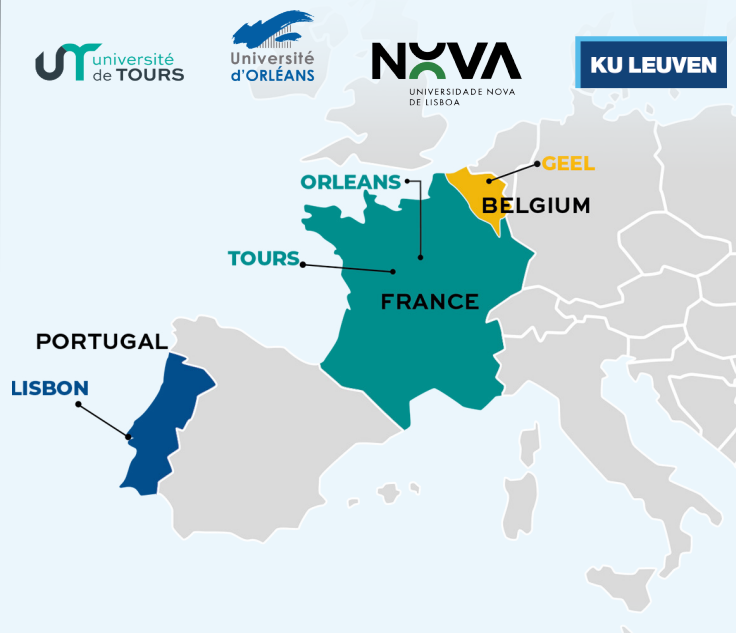
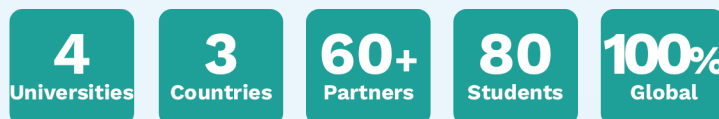
- Sustainable agriculture and pest management
- Insect-based food, feed, and biomaterials industries
- Biotechnology and bioinspired innovation
- Vector-borne diseases and One Health research
- Environmental and biodiversity policies

ISSF graduates are prepared for roles such as:

- Entomologist / Ecologist / Biocontrol Specialist
- Insect Production or R&D Manager
- Sustainability or Innovation Consultant
- Public Health Officer or Vector Control Expert
- Policy Advisor in Environment, Agriculture or Health

Our consortium

ISSF is a two year, 120 ECTS programme jointly awarded by four leading European Higher Education Institutions: Université de Tours and Université d'Orléans in France, KU Leuven in Belgium and Universidade Nova de Lisboa in Portugal, supported by a network of over 60 associated partners in industry and academia, in international research centres and institutions, from **33** countries



Linked 



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the European Union