

Internship opportunity	Intern « Testing of the PARC SSbD toolbox through use cases » (M/W)
Internship period	Full-time, contractual internship of at least 4 months To be filled as soon as possible
Location	Maisons-Alfort (94700)

THE AGENCY

The French Agency for Food, Environmental and Occupational Health & Safety (Anses) provides monitoring, expertise, research and reference services in a broad field covering human health, animal health and welfare, and plant health. It offers a cross-disciplinary approach to health issues, taking a global view of the exposures to which humans may be subjected through their lifestyles and consumption patterns, and the characteristics of their environment, including their working environment.

Anses informs the competent authorities and responds to their requests for expertise. The Agency carries out its missions in close collaboration with its European counterparts.

Anses in figures

- 1400 employees and 800 independent experts
- Annual budget: 141 million euros
- More than 14 000 opinions published since 1999
- 66 national reference mandates
- 394 scientific publications/year
- More than 100 PhD students and post-docs

For further information: www.anses.fr

DESCRIPTION OF THE INTERNSHIP

Entity The internship will be supervised by two entities at Anses:

The **European and International Affairs Department** (DAEI) is responsible for coordinating the activities carried out with foreign partners at EU and international levels by the Agency's various entities. It ensures compliance with the strategic orientations adopted by the Agency in this field. It also coordinates large-scale European research projects. It is composed of 15 agents.

The **Risk Assessment Department** carries out all assessment missions in the field of nutritional and health benefits and risks related to food, health-environmental risks, occupational health risks, risks related to animal health, nutrition and welfare, and risks related to plant health. It calls on the expert groups set up within the Agency and coordinates their work. It also calls on the scientific skills of its own staff, and works with the Agency's other entities. Within its field of competence, it carries out alert and vigilance missions, organizes the studies and surveys needed to collect the data required for its expert appraisal work, manages the associated observatories and databases, and carries out the methodological developments required to achieve its missions.

In the Chemicals Strategy for Sustainability (CSS) adopted on 14 October 2020 by the European Commission (EC), the EC formulated the ambition for an environment and economy that are both climate-neutral and toxic-free. An important pathway to reach this goal is through a transition towards chemicals and materials that are safe and sustainable by design (SSbD). SSbD has the potential to be a powerful concept and methodological framework for innovation in the chemical sector. The Partnership for the Assessment of Risks from Chemicals (PARC, <https://www.eu-parc.eu/>, co-funded by "Horizon Europe") aims to build an "SSbD toolbox" to steer the chemical industry towards innovation that is aligned with the European Green Deal and the CSS. The SSbD approach, as defined in the CSS, has a number of key features:

Objective

- The assessment is built up in 5 distinct steps, each step covering a specific aspect of SSbD, which are the following:

Step 1 – Hazard Assessment

Step 2 – Human health and safety aspects in the production and processing phase

Step 3 – Human health and environmental aspects in the final application phase

Step 4 – Environmental sustainability assessment

Step 5 – Socioeconomic assessment

- The assessment approach incorporates the early development stages of chemicals and materials by linking it to the innovation processes
- The assessment covers the whole lifecycle

For the development of the PARC SSbD toolbox, existing tools relevant for the application of the SSbD framework were tested in a pilot case study on bisphenol A (BPA) and two alternatives, bisphenol AP (BPAP) and isosorbide (ISB), in two different uses. The purpose of the internship will be to test the toolbox developed within PARC (<https://www.parc-ssbd.eu/>) and to apply it in another case study to a chemical that has already been documented in previous ANSES work (e.g. alternatives to formaldehyde).

You will be required to conduct the following activities:

- On line testing of the PARC SSbD toolbox
- Documenting the reliability and relevance of the tools included in the toolbox and identifying potential limitations to their use; organising interviews with ANSES scientists who are users of these tools
- Selecting an appropriate case study of interest for ANSES and
- Applying the PARC SSbD toolbox and analysing the results obtained. Support from the ANSES scientist who was involved in the case study will be provided.
- Proposing recommendations that might be implemented in the PARC toolbox (e.g., parameters used, key steps to be considered...)

PROFILE REQUIRED

Degree in progress Competences

Research Master's degree, Professional Master's degree, Engineering degree, Professional thesis (veterinary, medical or pharmacy schools)

- Good level of knowledge concerning risk assessment of chemicals for human health and/or the environment
- Good experience in using on line tools and models
- Interest in team work
- Language skills: Good levels of English and French would be appreciated

TO APPLY

Response deadline: 22/11/2024

Information about the internship: Christophe Rousselle, Project manager on European projects (Christophe.ROUSSELLE@anses.fr), Cécile MICHEL, Head of REACH, CLP and Endocrine Disruptors Unit (Cecile.MICHEL@anses.fr), Odile KERKHOF, Project manager on REACH and CLP regulations (odile.kerkhof@anses.fr)

Applications should be sent by e-mail (covering letter + CV) with the reference Stage-2024-039 to:

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