Senior Specialist in Computational Toxicology
Nestlé Institute of Food Safety & Analytical Sciences

Position Snapshot

Location: Nestlé Research, Lausanne, Switzerland
Institute: Institute of Food Safety & Analytical Sciences
Company: Société des Produits Nestlé S.A.
Act. Rate: Full-Time Act. Rate 100%
Type of contract: Permanent contract

Important Information: After submitting your application, you will be automatically invited to record a video introduction guided by specific questions. This video introduction should take no longer than 10 minutes. Once this step is completed, we would be pleased to consider your application and assess your profile accordingly. Kindly be informed that we will only consider candidates who have completed this step within 7 days from application. In case you miss this step, we will regretfully conclude that **you are withdrawing your application**.

What we offer at Nestlé

Genuine opportunities for career and personal development
Modern "smart office" locations providing agile & collaborative workspaces
Dynamic international working environment
Attractive additional benefits

Discover the true essence of Nestlé Research and watch our insightful video, showcasing our values and commitment to fostering a fulfilling work environment.

Position Summary

We are looking for a **Senior Specialist in Computational Toxicology** to lead the roadmap and implementation of the company *in silico* strategy and its integration to Next Generation Risk Assessment (NGRA) and work hand by hand with team specialists in Chemical Risk Assessment, PBPK and other computational approaches. In addition, you will provide scientific risk assessment expertise to Nestlé R&D projects from inception through all stages of development (Safety by Design) with emphasis on computational toxicology applications for strategies considering *in silico* new approach methodologies (waiving, read-across, *in silico* predictions, molecular dynamics simulation and Off-target binding identification) for risk assessment and the integration of *in vitro* and *in silico* methodologies for NGRA.

Aside from this, you will research on strategies to speed up and improve chemical safety-based decision making and to inform risk management. Also, you will provide technical support to operations to manage food safety issues.

Nestlé Research is based in Lausanne, Switzerland, employs approximately 1000 people and is comprised of five Nestlé Institutes: Food Sciences, Health Sciences, Food Safety & Analytical Sciences, Packaging Sciences, and Agricultural Sciences. Unlock the door of our organization and find out more about our research activities and expertise here.

A Day in the Life of a Senior Specialist in Computational Toxicology

- Support the development and refine NGRA framework to assess the safety of Nestlé products (including e.g., novel ingredients) and mixtures lacking toxicological data.
- Lead the development and application of computational chemistry approaches to analyze data from high throughput *in vitro* assays, data from *in vivo* toxicity studies, chemical properties, and other relevant sources to develop predictive models for toxicity and physicochemical properties in applications for screening for the potential human health effects of chemicals
- Develop/implement new approaches in Risk Assessment, to support R&D projects and management of issues in operations. Demonstrate widely recognized competences in *in silico* toxicology and its application in food risk assessment
- Lead the roadmap and implementation of the *in silico* strategy and its integration to NGRA.
- Lead projects, project streams and safety relevant activities in new product development projects (NR, NPTCs and R&D centers). This includes the planning, management and interpretation of externally contracted activities
- Provide evaluations and propose strategies for molecules (from new ingredients, food contact materials, contaminants, plant toxins) without toxicological data in response to operational issues, crisis and Early Warning
- Develop and integrate key knowledge area and expertise into business
- Develop tools in the domain of food risk assessment through research projects and contributions to expert groups.

What will make you successful

- PhD in Natural Sciences/Toxicology- or Chemo-informatics, Postdoc(s) would be an asset.
- Profound knowledge and experience in research and application of computational toxicology tools to support the risk assessment of chemicals in food.
- Experience in toxicology in the context of R&D
- Experience in risk assessment of chemicals and bioactive compounds in foods and other areas (packaging, chemical contaminants, supplements, new ingredients), and integration of *in vitro/in silico* approaches
- Previous exposure to alternatives to animal testing (*in vitro/in silico* approaches)
- Experience in contributing/chairing international expert groups
- Strength in communication (written and oral), collaboration/cooperation and networking. Coaching of junior colleagues
- Good written and oral communication in English

Nestlé is committed to the accessibility of its recruitment process. If you require an adaptation during the recruitment process, please do let us know so we can support you effectively. All information will be treated confidentially.

At Nestlé, we want to help shape a better and healthier world, inspire people to live healthier lives and deliver impact at a scale and pace that makes a difference. We do this by fostering a diverse, friendly, supportive, and collaborative environment, that creates positive disruption, embraces innovation, and empowers people and teams to win. We aim to hire friendly, respectful, inspiring people who care about the people's lives that we touch every single day.

Be a force for good. Join Nestlé and visit us on www.nestle.com.