Modelling Specialist - Mechanistic and Data Driven

"Sharing your passion for science-based innovation"

Nestlé Research, Lausanne, Switzerland **Temporary (2 years) or undefined**
period of time contract, act- rate 100%

Nestlé Research is based in Lausanne, Switzerland and employs approximately 800 people. It consists of three major research institutes: Health Sciences, Material Sciences and Food Safety & Analytical Sciences. Nestlé Research combines fundamental science at the highest level, high-end analytical platforms leveraged by all research teams, and strong prototyping capabilities to accelerate the translation of science into innovation. Nestlé Research published more than 1,000 scientific publications in peer review journals over the last five years, and files about 80 patents every year. Nestlé Research collaborates with approximately 100 universities or research institutes around the world. Learn more about Nestlé Research at www.nestle.com/randd

To strengthen our Technology Department (Institute of Materials Science), we are currently looking for a scientist specialized in Mechanistic and Data Driven modelling.
In this position, you will propose, develop and execute scientific activities with the ultimate goal to provide a science base for Nestlé growth opportunities, in existing and new (e.g. digital) product areas. Your initial focus in projects will be to identify and mathematically represent relationships between ingredients, transformation pathways, organoleptic properties and consumer preference to accelerate innovation. You will drive different activities related to modelling (ranging from mechanistic modelling to machine learning) and investigate opportunities in bridging product development, manufacturing and

Key responsibilities

- Use mechanistic and/or data driven modelling expertise in Nestlé R&D projects.
- Propose and drive innovative ideas/projects/methods and identify opportunities to leverage them in different product categories.
- Review and share latest developments in emerging fields of modelling (e.g. machine learning), and drive the development of novel approaches.
- Support group leader in strategy development and guide other team members in specific areas of expertise.
- Present results/methods in written and oral form to interested parties or visitors.
- Communicate effectively with key business stakeholders to identify business needs.
- Participate in expert networks to promote cross-fertilization among the different Nestlé businesses

Education and experience

- PhD in the field of Chemical Engineering, Applied Mathematics, Materials Science or Physics with a focus on Mathematical and Computational Modelling.
- Hands-on experience in both mechanistic (e.g. CFD) and data driven (e.g. regression analysis, neural networks) types of modelling.
- Experience in formulating scientific hypotheses and translating them into project proposals to answer business needs
- Experience in managing / driving complex projects and building & managing relationships with key internal & external stakeholders at senior level.
- Excellent written and oral communication skills in English.

Show us that you demonstrate high level of creativity for effective collaboration within a multidisciplinary team and strong convincing skills. Your open-mindedness and flexibility will contribute to your and our success. Furthermore, your ability to work in teams and your networking attitude are what will set you apart among the other candidates. If you are willing to grow in dynamic and challenging environment and if you want to make a difference to our performance, apply in English at www.nestle.com/jobs.

The Nestlé Group is the world's largest food and beverage company with 89.8 billion Swiss Francs in sales in 2017. It is present in 189 countries around the world, has 413 factories and its 323,000 employees are committed to Nestlé's purpose of enhancing quality of life and contributing to a healthier future. Nestlé offers a wide portfolio of products and services for people and their pets throughout their lives. Its more than 2000 brands range from global icons like Nescafé or Nespresso to local favourites. Company performance is driven by its Nutrition, Health and Wellness strategy. Nestlé is based in the Swiss town of Vevey where it was founded more than 150 years ago. Learn more about our Group and reasons to join us on www.nestle.com.

There's
more to life
at Nestlé