



Syngenta Group is one of the world's leading agriculture innovation companies, with roots going back more than 250 years. Its 48,000 people across more than 100 countries strive to transform agriculture through breakthrough products and technologies that play a vital role in enabling the food chain to feed the world safely, sustainably and with respect for our planet.

Our employees reflect the diversity of our customers, the markets where we operate and the communities which we serve. We invite you to help us shape the future of agriculture. At Syngenta, we believe every employee has a role to play in safely feeding the world and taking care of our planet.

Technical Expert Effect-Modelling (m/f/d)

Role Purpose:

The Technical Expert Effect-Modelling will lead the development, parameterization, validation, and application of toxicokinetic-toxicodynamic (TKTD) effect models to support registration of new and existing products by acting as a project lead, managing effect modelling input, and providing technical expertise to European and global projects.

Accountabilities:

- Lead and coordinate complex effect modelling projects internally or with external partners (regulatory science and new model development), incl. problem definition, conceptualisation, development, testing, validation, dissemination, application and leading out-sourcing.
- Application of TKTD models to environmental risk assessment questions, incl. further model development, implementation, testing and dissemination.
- Develop new methods and scientific knowledge (e.g. IVIVE, effect prediction, ERA tools) with particular focus on parameterising TKTD models from in vitro and/or in silico data.
- Propose, deliver, and present relevant novel research (incl. scientific publications & conference presentations).
- Co-ordinating with environmental fate, ecotoxicology, and risk assessment experts to develop environmental risk assessments and documented positions for European and global regulatory dossiers.
- Identifying novel solutions to complex challenges and answer critical questions.
- Deliver science inputs to support the management of technical issues.
- Maintenance of scientific and technical expertise, awareness of relevant scientific advances.
- Represent Syngenta in meetings with external regulatory agencies to discuss and successfully advocate our technical positions to address their questions and concerns.

Requirements:

- A PhD degree in the natural sciences or mathematics
- At least 4 years of relevant professional experience after PhD
- Expertise in toxicokinetic-toxicodynamic modelling, incl. DEB-TKTD and GUTS

- Strong track record relating to ecotoxicological effect modelling, incl. scientific publications and project leadership
- Good understanding of ecotoxicology, chemical risk assessment and bioassays
- Ability to design, build, analyse, validate, and deploy complex ecotoxicological effect models
- Ability to analyse, synthesise and efficiently present complex data
- Capable of advocating technically robust positions for complex projects
- Computational and data science skills, incl. a data science language (e.g. R, Matlab, Python or similar)
- Project leadership experience in Modelling and/or Environmental Science
- Effective communication skills, incl. excellent English
- Willingness to travel for international business

What we offer:

We offer a variety of financial and non-financial benefits including:

- We offer a position which contributes to valuable and impactful work in a stimulating and international environment
- A superb working environment with an open culture and diverse workforce where new ideas are always welcome
- The opportunity to work with and learn from highly qualified and experienced employees and gain scientific and technical excellence
- Learning culture (Together we Grow) and wide range of training options
- You will profit from a competitive pension fund plan, attractive bonus system, onsite doctor, fitness room, canteen, flexible working and home office options and other benefits (Family friendly initiatives, Child and Family allowance, ...)

Interested? We look forward to receiving your online application including all relevant documents (cover letter, CV) – reference number **18043822**.

Please be aware that the job title may differ from the position title.

Did you know? Syngenta has been ranked as a [top employer](#) by Science Journal.

Learn more about our [team](#), our [mission](#) and how we achieve our [goals](#).

Syngenta is an Equal Opportunity Employer and does not discriminate in recruitment, hiring, training, promotion, or any other employment practices for reasons of race, color, religion, gender, national origin, age, sexual orientation, marital or veteran status, disability, or any other legally protected status