

PhD Student in Non-Clinical Safety/DMPK-Development/Modeling and Simulation

Who we are

At Roche, 80,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we've become one of the world's leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity, and on seeing each other's differences as an advantage. To innovate healthcare, Roche has ambitious plans to keep learning and growing – and is seeking people who have the same goals for themselves.

The headquarters in Basel is one of Roche's largest sites, over 8,000 people from approximately 80 countries work at Roche Basel. Favored by its geographic location in the heart of Europe, the Basel area is one of the most dynamic economic regions in Switzerland – a great place to live and work.

The Position

As a world leader in pharmaceuticals, Roche has a reputation for successful, innovative drug development. The mission of the Preclinical Modeling and Simulation group at F. Hoffmann-La Roche Ltd. in Basel, Switzerland, is to predict the behavior of compounds in the body and to describe, in a quantitative way, dose-concentration-effect relationships. As part of the Preclinical group, our responsibilities cover a wide range : from supporting the drug discovery groups in their efforts to find new drug candidates to ensuring optimal support for the development of the compounds in our portfolio.

- Within this exciting and challenging PhD project the successful candidate will develop preclinical and clinical PBPK models to predict unbound concentrations and target effects in the main target organs such as brain and tumor.
- This will be based on mechanistic models integrating preclinical and clinically relevant in vitro data.
- The development of mathematical models integrating the experimental information in a mechanistic fashion is expected to improve our ability to predict the in vivo kinetics in such target organs.
- It will provide also the basis to establish mechanistic PK/PD relationship linking exposure at target site to target binding and downstream effects.

Who you are

You're someone who wants to influence your own development. You're looking for a company where you have the opportunity to pursue your interests across functions and geographies, and where a job title is not considered the final definition of who you are, but the starting point.

- In addition to your education in life sciences (MSc in toxicology, (bio)chemistry, pharmacy, molecular biology – or related area) you have already gained PBPK modeling experience in a related subject, preferably during the master thesis.
- You are familiar with the principles of PBPK and PK/PD.
- You are self reliable and motivated. Dedicated to accurate work you are used to work independently and in small teams.
- Knowledge of modeling softwares such as Gastroplus, Matlab, Monolix
- A good command of written and spoken English besides fluency in French or German are mandatory.

Job ID No.: 22552

Contact Line: Dr. Lavé Thierry, Phone: +41 61 688 8479

Contact HR: W. Kinzy, phone +41 61 68 79403

The next step is yours. To apply online for this position, click here.

You want to learn more about other exciting positions, please visit www.careers.roche.ch

*“Make your mark.
Improve lives.”*

Tim I.
Roche, Switzerland

