Internship research project opportunity in Systems Biology/Systems Pharmacology/Systems Toxicology

Are you passionate about systems biology, and the mathematical modelling of biology? Do you have coding skills and a keen interest in applying them to real-world problems in pharmacology and toxicology? If yes, we have an exciting opportunity for you!

What We Offer

Topic: Internship projects in the fields of Systems Biology/Toxicology/Pharmacology with direct relevance for industry applications (open-systems-pharmacology.org). Together with a fast-growing life sciences modelling & simulation company, we offer projects with a unique blend of academic research and practical industry insights. All our projects revolve around using and evaluating mathematical models (PBPK models) to simulate the absorption of drugs or other chemicals into the human body via different routes (oral, dermal).

Duration: ~ 3 - 6 months

Start Date: Immediately

Location: Either fully remotely or in Aachen, Germany

Requirements:

- Fluency in English (oral and written)
- A background in life sciences (biology/biotechnology/bioinformatics/biochemistry/chemistry/physics) with a strong interest in computational approaches (esp. coding and mathematical modelling)
- The project will be conducted using R. Experience with R is not a requirement, but some programming experience is required (R, Python, Julia, Java…)
- Experience with mathematical modelling is a plus
- Experience with data analysis is a plus

Why join us?

1. Our projects have real-world impact. We advance the fields of pharmacology and toxicology through computational innovation, in order to accelerate drug development and to replace animal testing with *in silico* methods.

2. Opportunity to learn about mathematical modelling, simulation and data analysis working on real-world problems.

3. Close collaboration with industry partners.

To apply, please send a CV (with grades/transcript of records) and a short cover letter (max. 1 page) stating your personal research interests to rgeci@ukaachen.de

René Geci

Joint Research Center for Computational Biomedicine

Pauwelsstrasse 19, 52074 Aachen