PhD internship in Data synthesis and quantitative analyses of circadian biomarkers, RiSE (7 months)

Switzerland, Basel-City, Basel

Job-Fakten

At Roche, we believe it’s urgent to deliver medical solutions right now – even as we develop innovations for the future. We are passionate about transforming patients’ lives and we are fearless in both decision and action. And we believe that good business means a better world.

That is why we come to work every single day. We commit ourselves to scientific rigour, unassailable ethics, and access to medical innovations for all. We do this today to build a better tomorrow.

The Position

The RiSE program (Roche Internships for Scientific Exchange) is a highly competitive student research program at Roche. It offers the most talented postgraduate PhD and medical degree students the opportunity to be fully integrated into our interdisciplinary and international industry R&D environment. As a RiSE student you will enhance your competencies, gain valuable work experience with us, and eventually become part of a world-wide network of RiSE Alumni.

The Neuroscience and Rare Diseases Discovery and Translational Area (NRD DTA) is developing medicines for a range of serious neurological diseases, including multiple sclerosis, Alzheimer’s disease, Parkinson’s disease, autism, spinal muscular atrophy, and Huntington’s disease.

As a RiSE student in the NRD DTA, you will join our group in Biomarkers & Translational Technologies at the Roche Innovation Center Basel, Switzerland in order to develop and apply statistical models to establish the most effective protocol for assessing pharmacological effects on circadian function and sleep in early human trials. Part of your tasks will be to finalize and analyze our in-house meta-analysis database. You will be hosted and mentored by a team of Roche scientists who will guide you through your research and provide you with the needed work infrastructure and collaborative network.

During the internship your tasks will include

- Detailed background literature review of current and historical human circadian studies, extracting and checking data suitable for meta-analysis, conducting statistical analyses and providing data driven summaries for a diverse audience, of a quality sufficient for peer-reviewed publication;
- Statistical analysis, including network meta-analysis and meta-regressions, of an in-house database tracking circadian biomarkers across multiple trial designs with the aim of identifying drivers of inter-individual variability.
- Apply your scientific rigor to critically evaluate the established in-house database to build a personal understanding of the complexity running circadian studies and for translating circadian biomarkers into patient trials.
- Work in consultation with Roche’s internal and external network of clinical experts to understand the clinical impact of circadian dysregulation across NRD strategic areas and evaluate relevant quantifiable biomarkers;
- Present the results to diverse audiences and prepare them for peer-reviewed publication

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. Where a job title is not considered the final definition of who you are, but the starting point.

Moreover you are/have
Enrolled in a PhD or medical degree program at a university and are looking to expand your experience with an industry internship (must still be enrolled at University for 50% of the duration of the stay at Roche)

Demonstrated hand-on programming experience of complex statistical regression analysis in Python or R (e.g. base/tidyverse, ggplot, metafor and/or linear or non-linear mixed-effect models; Bayesian modeling experience with brms, rstanarm, or similar is a plus).

Experience with clinical or basic sleep and/or circadian research including a fundamental understanding of the interaction between circadian and sleep homeostatic processes.

Information about application documents and start date

The preferred start date of the internship is August, 2021 or upon availability.

Applications need to include a CV and a cover letter, as well as a letter from your academic supervisor supporting your application to the RiSE Program.

Please note that due to regulations non-EU/EFTA citizens have to provide a certificate from the university stating that an industry internship is mandatory as part of the university training.

Do you know what Roche stands for? Roche embraces diversity and equal opportunity in a serious way. We are committed to building a team that represents a variety of backgrounds, perspectives, and skills. The more inclusive we are, the better our work will be.

More information about career start at Roche you can find here
Tags: ROiQQ ROiLS ROiNSC RiSE

Wer wir sind At Roche, 100,000 people across 100 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.

Roche is an equal opportunity employer. Standort Switzerland, Basel-City, Basel

Apply now!