Call for Industrial PhD Studentship

Project Title: Development of Predictive Tools for Paediatric Oral Drug Development

Host Institutions: Bioneer A/S and University of Copenhagen, Denmark

Project Overview

This industrial PhD project addresses a critical gap in paediatric drug development: the lack of validated, physiologically relevant *in vitro* tools for predicting oral drug absorption across paediatric age groups. Building on the dynamic gastrointestinal model (DGM) technology, the PhD candidate will develop and validate age-specific adaptations that reflect physiological differences across paediatric populations and varying nutritional states. The generated *in vitro* data will be integrated into physiologically based pharmacokinetic (PBPK) models, enabling predictive workflows that support ethical and efficient development of paediatric medicines. The project will be conducted in close collaboration between the Bioneer A/S and University of Copenhagen, with an opportunity for a research stay at Monash University, Australia. The candidate will work across academic and industrial environments, gaining hands-on experience in experimental design, advanced analytics, and computational modelling.

Eligibility

- MSc in pharmacy, pharmaceutical sciences, veterinary sciences, or related fields
- Experience with biorelevant *in vitro* models and/or PBPK modelling is an advantage
- Excellent written and verbal communication skills in English

Application Process

Submit the following as a merged PDF to mmk@bioneer.dk and anette.mullertz@sund.ku.dk:

- CV
- Cover letter (max 1 page)
- Academic transcripts
- Contact details for two references

Deadline: 31/1-2026

Start Date: 1/6-2026

Contact:

Main industrial supervisor: PhD. Matthias Manne Knopp, mmk@bioneer.dk

Main academic supervisor: Prof. Anette Müllertz, anette.mullertz@sund.ku.dk