

Fully Funded PhD Studentship in Pharmacometrics in the Department of Pharmacy of the University of Athens.

We invite applications for a fully funded 4-year PhD studentship in the field of Pharmacometrics and Model-Informed Drug Development (MIDD), based in the Department of Pharmacy at the University of Athens. The successful candidate will work on an exciting interdisciplinary research project focused on optimizing drug treatments for tuberculosis (TB) in both adults and children.

The project is supported by two major European consortia—ERA4TB and ERAMET—and involves collaboration with leading international experts in drug development and regulatory science.

Research Focus

The core of the PhD project will involve the integration of three components to predict therapeutic outcomes of drug combination therapies for TB, which will be validated by clinical data: (a) Pharmacokinetic/pharmacodynamic (PK/PD) models that characterize bacterial kill rates at varying drug concentrations. (b) Physiologically based pharmacokinetic (PBPK) models to simulate drug levels in infected lung tissue. (c) Mathematical models of the immune system response. The ultimate aim is to support regulatory decision-making by preparing and presenting the modeling methodology and outcomes at an Innovation Task Force (ITF) meeting at the European Medicines Agency (EMA). This work aligns with ERAMET's mission to promote regulatory adoption of M&S approaches in pediatric and rare disease drug development.

About the Consortia

ERA4TB (European Regimen Accelerator for Tuberculosis)

A public-private initiative focused on accelerating the development of new TB treatment regimens, including cutting-edge M&S tools to support preclinical and clinical drug development. More info → <https://era4tb.org/>

ERAMET (Ecosystem for RApid adoption of Modelling and Simulation METHods)

An EU project aimed at creating a transparent, integrated ecosystem for the adoption of M&S methods in the development and regulatory assessment of pediatric and orphan medicines. More info → <https://www.erametproject.eu/>

About the Host Institution

The Pharmacometrics Group at the University of Athens is a well-funded academic unit specializing in a wide range of methodologies including pharmacokinetic/pharmacodynamic modeling, PBPK modeling, and machine learning. <https://www.pharmacometrics.gr>

How to Apply

For inquiries or to apply, please contact:

Prof. Aris Dokoumetzidis: adokoum@pharm.uoa.gr

Applications will be reviewed on a rolling basis until the position is filled.