



# Senior Engineer, PhysioPD™ (QSP)

Engineers work with Scientists in our PhysioPD practice to develop mechanistic quantitative systems pharmacology (QSP) models and conduct simulations of disease, drug action, and (pre)clinical studies.

## Engineers are responsible for:

- Developing physiologically-based dynamic mathematical models and conducting simulations of disease, drug action, and (pre)clinical studies;
- Working in conjunction with Rosa Scientists to cultivate data in support of model construction and interpretation;
- Defining key issues, presenting results, and developing associated presentations and reports;
- Leading projects, assisting with client relationship management, and participating in Rosa's business development, depending on the candidate's experience and professional goals.

## The ideal Engineer candidate will have:

- A PhD in bioengineering, pharmacology/pharmacometrics, systems biology, chemical engineering, applied mathematics, physics, or a related quantitative field with experience in nonlinear dynamic systems and control theory;
- A minimum of five (5) years of relevant industry experience in, for example, quantitative systems pharmacology (QSP), mathematical modeling and simulation, or pharmacometrics;
- An understanding of the pharmaceutical R&D process and experience in applying modeling to support decision-making in that context;
- Experience managing modeling projects and communicating cross-functionally with a variety of stakeholders;
- Proficiency with industry-standard dynamic modeling software such as MATLAB/SimBiology.
- Excellent written and verbal communication skills, and ability to work both independently and collaboratively as part of a Rosa-client joint project team

**Rosa is a virtual office company. Relocation is not required.**

For more information, contact Christina Friedrich, Chief Engineer, [hr@rosaandco.com](mailto:hr@rosaandco.com)