Job Description:

Janssen Research & Development, L.L.C., a division of Johnson & Johnson's Family of Companies is recruiting for a Postdoctoral Scientist, located in Malvern, PA.

At the Janssen Pharmaceutical Companies of Johnson & Johnson, what matters most is helping people live full and healthy lives. We focus on treating, curing and preventing some of the most devastating and complex diseases of our time. And we pursue the most promising science, wherever it might be found.

Janssen Research & Development, LLC discovers and develops innovative medical solutions to address important unmet medical needs in oncology, immunology, neuroscience, infectious diseases and vaccines, and cardiovascular and metabolic diseases. Please visit http://www.janssenrnd.com/ for more information.

We are Janssen. Our mission drives us. Our patients inspire us. We collaborate with the world for the health of everyone in it.

The Biotherapeutics Development-Active Pharmaceutical Ingredient (BioTD-API) develops creative large molecule solutions to address significant unmet medical needs in oncology, immunology, neuroscience, infectious diseases and vaccines, and cardiovascular and metabolic diseases. The API Process Development organization is continuing to build key scientific expertise in metabolic and process modeling. The postdoctoral scientist will be responsible for leading a collaborative project to build a digital twin model of Janssen's upstream platform process. The goal of the project is to create an accurate, genome-based model that will serve as a digital representation of large scale-production reactors, and to use the model to guide upstream process development from cell line selection through the production bioreactor. Your duties and responsibilities will include:

- Design and execute experiments using reduced-scale models to create data sets to build and test the model
- Handle and process large data sets that will be used for model training and testing
- Develop standardized workflows to allow the model to be used by a wide user group with varying abilities
- Publish results is a peer-reviewed journal
- Maintain a laboratory notebook and other technical documents according to required guidelines
- Lead or facilitate meetings with collaborators and participate in cross-functional teams at project-related meetings

Qualifications:

- A Ph.D. in Engineering (Chemical, Biomedical) or related field
- Experience with cell culture and cell metabolism is highly preferred
- Experience or desire to learn quantitative approaches for analysis of metabolic pathways, especially flux balance analysis
- Proven ability to develop and execute experimental protocols as well as analyze and properly interpret data is a must
- Strong oral and written communication skills
- A strong commitment to good documentation practices a must