

Proforma

Companies open to your department

Company : Vantage Research
Company Name : Vantage Research
Nature Of Business : Pharmaceutical research and development
Designation : Scientist
Tentative Job Location : Chennai, India

Modeling & Simulation Engineer

Vantage is looking to recruit a talented and qualified Modeling & Simulation (M&S) Engineer, with an interest in applying Quantitative Systems Pharmacology (QSP) to Pharma and Biotech R&D. QSP aims to quantify and integrate multiple scales of physiological knowledge using mathematical models.

You will be part of an inter-disciplinary team of Modeling & Simulation experts that generate insights to support R&D decision-making in pharma, biotech and life sciences, to ultimately deliver novel drugs to patients.

The ideal M&S Engineer will combine the team’s knowledge of biology & physiology with sound model development principles, using relevant computational tools to build custom QSP models tailored for client R&D requirements. Specifically, the M&S Engineer will

Description :

- Develop mathematical models of physiological systems to analyze dynamical behavior, quantify parameter sensitivities and understand system behavior, in order to derive analysis and insights that guide drug discovery and development decisions.
- Use literature research to make reasoned decisions on proper biological representation
- Develop process, tools and scripts to improve efficiency of workflows
- Communicates with client research team to identify need, strives to understand and define a complex research problem, and break it down into research flow
- Communicates effectively with team members and customers and leads the project in alignment with customer expectations

Ideal Skills/Education/Background include:

- A degree in Chemical Engineering, Applied Mathematics, Physics, Bioengineering, or related field providing a foundation in engineering of dynamical systems
- Master’s/PhD degrees with relevant research experience is a plus
- Demonstrated experience working in Modeling & Simulation with proven ability to develop, validate and apply models for real world applications. Specifically, experience using Ordinary Differential Equations, Techniques of Non-Linear Dynamics, parameter optimization methods
- Experience in computational biology and/or modeling of biological systems is highly desirable
- Strong coding experience with relevant software/tools such as Matlab, R, Python, C/C++
- Experience with interpreting/analyzing quantitative information (especially clinical trial data, experimental data)
- Experience working on independent research projects, resulting in publications in high impact journals
- Communication skills are highly valued, including scientific writing, and more generally, articulation of complex technical subjects to multiple stakeholders
- Interest in biology is necessary. Exposure to biology/physiology is a major plus

	Department	BT	BS	MT	DoubleMajor	dual	dualB	dualC	Mdes	MBA	Phd	MSc	MSR
Eligibilty :	AE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	BSBE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	CE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	CHE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	CSE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	EE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	ES	-	Y	Y	-	Y	-	Y	-	-	Y	-	-
	ME	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	MSE	Y	-	Y	Y	Y	Y	Y	-	-	Y	-	Y
	PHY	-	Y	-	Y	Y	Y	Y	-	-	Y	Y	-
	CHM	-	Y	-	Y	Y	Y	Y	-	-	Y	Y	-
	MTH	-	Y	-	Y	Y	Y	Y	-	-	Y	Y	-

	ECO	-	Y	-	Y	Y	Y	Y	-	-	Y	-	-
	DES	-	-	-	-	-	-	Y	Y	-	Y	-	-
	IME	-	-	Y	-	-	Y	Y	-	Y	Y	-	-
	CGS	-	-	-	-	-	-	-	-	-	Y	-	Y
	HSS	-	-	-	-	-	-	-	-	-	Y	-	-
	EEM	-	-	Y	-	-	Y	-	-	-	Y	-	-
	MSP	-	-	Y	-	-	-	-	-	-	Y	-	-
	NET	-	-	Y	-	-	Y	-	-	-	Y	-	-
	PSE	-	-	Y	-	-	Y	-	-	-	Y	-	Y
	Stats	-	-	-	-	-	-	-	-	-	Y	Y	-

Cost to Company : 1000000

Package Details : 1000000

Bond : False

Medical Requirements NO :

Resume Shortlist : False

Aptitude Test: False

Group Discussion: False

Technical Test: True

Technical Test Duration: 60 min

Technical Interview: True

Technical Interview Duration: N/A

Number of Techincal Interview Rounds: 0

HR Interview: False
