NOVARTIS

Senior Principal Scientist/Associate Director, Radioligand Modeling & Simulation

Job ID
REQ-10019029
Sep 03, 2024
USA

Summary

Location: This position will be located in Cambridge, MA and will not have the ability to be located remotely.

#LI-Hybrid

About the role:

We are seeking an experienced translational or clinical modeler eager to accelerate radioligand discovery & development by enabling rigorous decision making with modeling & simulation. You will work in a multi-disciplinary environment, with opportunities to engage in and/or lead cross-functional initiatives.

This role reports to a PK Sciences Translational Modeling team lead, in a group situated within Biomedical Research, the research engine of Novartis.

About the Role

Key responsibilities:

- Act as the Translational M&S representative on radioligand therapy programs, developing and executing modeling strategies, contributing to project team discussions, and guiding therapeutic design and dose selection decisions.
- Build and apply innovative QSP and physiologically based PK (PBPK) models along with dosimetry estimations to link RLT pharmacology, tissue biodistribution, mechanism(s) of action, and biological and clinical outcomes.
- Advance the development of an integrated RLT modeling platform that bridges data and knowledge across preclinical species and patients, partnering with discovery project teams as well as the preclinical safety and pharmacometrics groups.
- Advance the translational science for radiopharmaceuticals, setting new standards in how to guide RLT discovery and clinical development.
- Proactively seek opportunities to increase the impact and awareness of translational and clinical modeling through communications with internal and external audiences.
- Contribute to group strategy and serve as an M&S subject area expert across PK Sciences and

Biomedical Research initiatives.

Minimum Requirements:

- Ph.D. in biology, pharmaceutical sciences, bioengineering, biophysics, or a related field with 6+ years of experience (experience in industry preferred) as well as demonstrated mastery of radiobiology / nuclear medicine.
- Extensive experience, preferably in industry, in pharmacokinetics and pharmacodynamics (PK/PD), quantitative systems pharmacology (QSP), and/or physiologically based PK (PBPK) modeling is required.
- Expert level proficiency in core modeling fundamentals is required, including scripting languages (e.g., MATLAB, R), construction of ordinary differential equation (ODE) models, parameter estimation, and data visualization. Proficiency in dosimetry is a plus.
- Demonstrated ability to communicate modeling results to a multidisciplinary audience to facilitate decision-making.
- Demonstrated ability to independently develop and implement modeling strategy across a disease area and/or modality platform.
- Demonstrated scientific leadership in Modeling & Simulation and ability to effectively partner with and influence the broader drug discovery and development organization to be considered at the Associate Director level.
- Fluent in English (oral and written).

This is a dual level posting. The final level and title of the offer role would be determined by the hiring team based on the skills, experience & capabilities required to perform the role at the level the role has been offered.

#ModelingAndSimulation #PKSciences #TranslationalMedicineQuants

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Benefits and Rewards:

Read our handbook to learn about all the ways we'll help you thrive personally and professionally: Novartis Life Handbook

Commitment to Diversity and Inclusion:

Novartis is committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

Novartis Compensation and Benefit Summary: The pay range for this position at commencement of employment is expected to be between $166,400 - $249,600/year; however, while salary ranges are effective from 1/1/24 through 12/31/24, fluctuations in the job market may necessitate adjustments to pay ranges during this period. Further, final pay determinations will depend on various factors, including, but not limited to geographical location, experience level, knowledge, skills, and abilities. The total compensation package for

this position may also include other elements, including a sign-on bonus, restricted stock units, and discretionary awards in addition to a full range of medical, financial, and/or other benefits (including 401(k) eligibility and various paid time off benefits, such as vacation, sick time, and parental leave), dependent on the position offered. Details of participation in these benefit plans will be provided if an employee receives an offer of employment. If hired, employee will be in an “at-will position” and the Company reserves the right to modify base salary (as well as any other discretionary payment or compensation program) at any time, including for reasons related to individual performance, Company or individual department/team performance, and market factors.

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients’ lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

Benefits and Rewards: Read our handbook to learn about all the ways we’ll help you thrive personally and professionally: https://www.novartis.com/careers/benefits-rewards

EEO Statement:

The Novartis Group of Companies are Equal Opportunity Employers who are focused on building and advancing a culture of inclusion that values and celebrates individual differences, uniqueness, backgrounds and perspectives. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, sex, national origin, age, sexual orientation, gender identity or expression, marital or veteran status, disability, or any other legally protected status. We are committed to fostering a diverse and inclusive workplace that reflects the world around us and connects us to the patients, customers and communities we serve.

Accessibility & Reasonable Accommodations

The Novartis Group of Companies are committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the application process, or to perform the essential functions of a position, please send an e-mail to us.reasonableaccommodations@novartis.com or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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Biomedical Research
Business Unit
Pharma Research
Location
USA
Site
Cambridge (USA)
Company / Legal Entity
U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.
Functional Area

Research & Development
Job Type
Full time
Employment Type
Regular
Shift Work
No
Apply to Job

Job ID
REQ-10019029

Senior Principal Scientist/Associate Director, Radioligand Modeling & Simulation

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