Principal Scientist, Modeling & Simulation RLT

Job ID
REQ-10019028
Sep 03, 2024
USA

Summary

Principal Scientist I/II, Radioligand Modeling & Simulation

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 a translational or clinical modeler eager to accelerate radioligand discovery & development by facilitating rigorous decision making with modeling & simulation. You will work in a multi-disciplinary environment, with opportunities to engage in 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.
- Contribute to 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.
- Implementing innovating quantitative approaches to advance the translational science for radiopharmaceuticals.
- Proactively seek opportunities to increase the impact and awareness of translational and clinical modeling through communications with internal and external audiences.

Essential requirements:

- Ph.D. in biology, pharmaceutical sciences, bioengineering, biophysics, or a related field along with demonstrated expertise in radiobiology / nuclear medicine. To be considered at the Principal Scientist II level must have 2-3 years plus related experience ideally in industry.
- Prior experience in pharmacokinetics and pharmacodynamics (PK/PD), quantitative systems pharmacology (QSP), and/or physiologically based PK (PBPK) modeling is preferred.
- 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.
- Demonstrated ability to communicate modeling results to a multidisciplinary audience to facilitate decision-making.
- To be considered as a Principal Scientist II must have demonstrated ability and experience leading modeling projects with drug discovery/development project teams, generating innovative ideas and objectives within a team, coach/mentor junior modelers.
- 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.

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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 $130,400 - $195,600/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

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EEO Statement:

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Accessibility & Reasonable Accommodations

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