

# Principal Scientist I/II, Radioligand Modeling & Simulation

Job ID  
REQ-10038284  
Jan 30, 2025  
USA

## Summary

#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 differential equation based models, parameter estimation, and data visualization.
- Demonstrated ability to communicate modeling results to a multidisciplinary audience to facilitate decision-making.

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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**Novartis Compensation and Benefit Summary:** The pay range for this position at commencement of employment is expected to be between \$119,700 to \$222,300/year; however, while salary ranges are effective from 1/1/25 through 12/31/25, 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.

#ModelingAndSimulation #PKSciences #TranslationalMedicineQuants

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Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

State

Massachusetts

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

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