

# Senior Scientist II/Principal Scientist I

## Biotransformation, PK Sciences

Job ID  
REQ-10023641  
Oct 02, 2024  
USA

### Summary

#LI-Onsite

This position is located in Cambridge, MA.

The Pharmacokinetic Sciences (PKS) Department within the Novartis Biomedical Research Division (BR) in Cambridge, Massachusetts is looking for a laboratory-based biotransformation scientist with experience in metabolite identification and profiling to join their global biotransformation team with groups in Europe and North America.

As a biotransformation scientist, you will develop state-of-the-art analytical methodologies using ultra/high performance liquid chromatography (U/HPLC) coupled with high resolution mass spectrometry (HRMS) to identify metabolites and elucidate biotransformation pathways from complex biologic matrices. This role will require you to be familiar with various in vitro enzymatic systems used in drug metabolism biotransformation studies as well as extraction procedures such as protein precipitation, liquid/liquid extraction (LLE), and solid phase extraction (SPE). In addition, you will be familiar with mass spectrometry fragmentation interpretation, structural elucidation, and data processing requirements needed to characterize metabolites of small molecules. Experience with the biotransformation of peptides, oligonucleotides, and/or intact proteins would be considered highly advantageous.

### About the Role

As the successful candidate you will plan and execute fit-for-purpose experiments, maintain the laboratory environment/instruments, and support the development of new technologies. You will also be expected to interact with and present your findings in team meetings, document your findings in an electronic notebook, and prepare internal reports. Furthermore, depending on the seniority of the successful candidate, you will represent the ADME line function in PKS sub-teams and project teams, collaborate in the preparation of external publications, and contribute to registration documents.

### Key Responsibilities:

- Design and execution of biotransformation studies to assess metabolic pathways and structural elucidation of metabolites

- Organize and prepare experimental protocols and study reports with upload of results to a centralized database
- Presentation of key findings to team members and/or other stakeholders
- Support *in vitro* and *in vivo* discovery, pre-clinical, and clinical development biotransformation studies
- Assure quality standard guidelines and safe work practices are applied while working in the laboratories

**Essential Requirements:**

- Degree in Analytical/Medicinal Chemistry, Biochemistry, Biology, or Pharmaceutical Sciences, with knowledge of drug discovery/development
- PhD with 0 years, MS with 3+ years, or BS with 8+ years of relevant experience
- Applicants with additional research/industrial experience relevant to drug metabolism or mass spectrometry may be considered at the Principal Scientist I level
- Hands-on experience in operation, maintenance, and troubleshooting of state-of-the-art high resolution mass spectrometers
- Excellent oral and written communication skills
- Careful attention to detail, exceptional organizational skills, and ability to multitask
- Team player with ability to be flexible and adapt to a changing environment

**Desirable requirements:**

- Prior experience with small molecule metabolite identification, structural elucidation, and biotransformation studies
- Familiarity with *in vitro* systems commonly used for drug metabolism studies (hepatocytes, homogenate, microsomes, S9 fraction, recombinant enzymes)
- Experience with intact protein, immunoprecipitation, peptide, and/or oligonucleotide analysis would be considered a bonus

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 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 \$107,200 and \$160,800/annually at the Senior Scientist II level and \$118,400 and \$177,600 at the Principal Scientist I level 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.

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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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