

Scientist, Medicinal Chemistry



Job Code
1543

FLSA Status
Exempt

Job Family
**Medicinal Chemistry
Scientist**

Job Level
3

GxP
No

Position Summary

Responsible for the design, synthesis, purification, and characterization of intermediates and bioactive compounds through the use of techniques such as column chromatography (e.g., high performance liquid chromatography, automated normal phase purification), nuclear magnetic resonance and parallel or combinatorial synthesis. Prepares technical reports, summaries, protocols, and quantitative analyses. Responsible for the communication and presentation of results to the project team in order to facilitate effective decision making.

Essential Functions

- Plays key role in the rapid optimization of lead molecules utilizing modern technology available to medicinal chemists such as automated synthesis and purification.
- Participates in a multidisciplinary team committed to the continuous improvement of the lead optimization process as well as the expeditious identification of development compounds.
- Designs, plans and conducts synthesis of intermediates and analog libraries as well communicates results to the project or program team.
- Other duties as assigned.

Dimensions

Career Level: T2

Scope: T2 - Performs assigned experiments (under general supervision) that support scientific activities and project goals, may design less complex experiments. Follows appropriate methods and techniques in performing experiments and prepares related reports. Collaborates with supervisory personnel to develop routine methods. Recommends alternatives, researches new methods and techniques and may proactively seek out senior personnel to discuss potential solutions to problems.

Job Complexity: T2 - Able to independently plan basic experiments applicable to a specific project based on a general understanding of lab operations. Applies independent thinking to solve moderate problems. Takes direction regarding experiments or lab processes and learns to apply independent

thinking to suggest resolution to technical issues. Selects appropriate methods and techniques in performing experiments, with general guidance and direction.

Discretion: T2 - Work product impacts outcome of assigned experiments / initiatives within own group.

Interaction: T2 - Collaborates with project group. May begin to present at team meetings.

Supervision: T2 - Normally receives general instructions on routine work, detailed instructions on new projects or assignments.

Knowledge and Qualifications

Common Knowledge & Skills

- Recognizes fundamental anomalies in data points and identifies issues in experiments / processes
- Begins to understand how to think outside of the technical process and consider the impact decisions will have on the broader scientific goals
- Strong knowledge of scientific discipline
- Good knowledge of scientific principles, methods and techniques
- Good knowledge and demonstrated ability working with a variety of laboratory equipment/tools
- Strong computer skills
- Good problem-solving, analytical thinking skills
- Detail oriented
- Ability to meet deadlines
- Excellent communication skills with the ability to collaborate with cross-functional scientists

Job Specific Knowledge & Qualifications

- Working knowledge of any or all of the following: organic synthesis, parallel synthesis, medicinal chemistry, lab automation, and purification in the optimization of lead compounds is preferred

Typical Experience or Education

Education

BS/BA degree

and

Experience

2+ years of relevant experience, including familiarity utilizing any or all of the following: parallel synthesis, lab automation, and purification in the optimization of lead compounds is preferred

OR

MS/MA degree in Synthetic Organic Chemistry preferred

and

some similar experience noted above

OR

PhD in Synthetic Organic Chemistry or related field preferred

and

some related postdoctoral experience required; 2+ years postdoctoral experience preferred

Physical Demands

Demand	Description	Frequency
Reaching	Extending hand(s) and arm(s) in any direction.	Frequent
Standing	Particularly for sustained periods of time.	Frequent
Walking	Moving about on foot to accomplish tasks, particularly for long distances or moving from one work site to another.	Frequent
Grasping	Applying pressure to an object with the fingers and palm.	Frequent
Talking	Expressing or exchanging ideas by means of the spoken word. Those activities in which they must convey detailed or important spoken instructions to other workers accurately, loudly, or quickly.	Frequent
Hearing	Perceiving the nature of sounds at normal speaking levels with or without correction. Ability to receive detailed information through oral communication, and to make the discriminations in sound.	Frequent
Repetitive Motion	Substantial movements (motions) of the wrists, hands, and/or fingers.	Frequent

Lifting: Exerting up to 20 pounds of force occasionally, and/or up to 10 pounds of force frequently, and/or a negligible amount of force constantly to move objects.

Working Conditions

The worker is subject to hazards. Includes a variety of physical conditions, such as proximity to moving mechanical parts, moving vehicles, electrical current, working on scaffolding and high places, exposure to high heat or exposure to chemicals.

Travel

0 - 25%

Reasonable Accommodation Statement

To accomplish this job successfully, an individual must be able to perform, with or without reasonable accommodation, each essential function satisfactorily. Reasonable accommodations may be made to help enable qualified individuals with disabilities to perform the essential functions.