Scientist (Ph.D. Level), Radiochemistry

Janssen Research & Development, LLC., a division of Johnson & Johnson's Family of Companies is recruiting for a Scientist level radiochemist located in Spring House, PA.

At the Janssen Pharmaceutical Companies of Johnson & Johnson, what matters most is helping people live full and healthy lives. We focus on treating, curing and preventing some of the most devastating and complex diseases of our time. And we pursue the most promising science, wherever it might be found. Janssen Research & Development, LLC discovers and develops innovative medical solutions to address meaningful unmet medical needs in oncology, immunology, neuroscience, infectious diseases and vaccines, and cardiovascular and metabolic diseases. Please visit http://www.janssenrnd.com/ for more information.

We are Janssen. Our mission drives us. Our patients inspire us. We collaborate with the world for the health of everyone in it. Thriving on a diverse company culture, celebrating the uniqueness of our employees and committed to inclusion. Proud to be an equal opportunity employer.

Isotope Chemistry is a technical and scientific department within our Global Discovery Chemistry (GDC) organization. We are expanding our team to strengthen support for discovery and pre-clinical development and our growing radiopharmaceutical portfolio. Our department is responsible for:

- Syntheses of radiotracers bearing long-lived (e.g. C-14, H-3) and short-lived therapeutic (e.g. Ac-225) isotopes within a high airflow facility equipped with advanced engineering controls.
- Development of novel radiolabeling methodologies that can be applied small and large molecules bearing either long-lived or radiotherapeutic isotopes.
- Development of radiopharmaceutical bifunctional conjugates that may be telescoped to PET radiochemistry workstreams.
- Design and development of full radiosynthetic routes to target radiotracers.
- Development of early radiopharmaceutical production processes.
- Development of state-of-the-art radiometal chelators and chelation technologies.
- Development of automation technologies and scale out processes.
- Development of procedures utilized in GMP synthesis of C-14 labeled drug candidates for human mass balance studies.
- Development of new analytical methods to qualify radiotracers.
- Development of separation techniques for the purification of radiotracers.
- Development of specifications and qualification of radiotracers.
- Technical transfer of radiochemistry techniques, proprietary processes as well as standardized and novel analytical procedures to clinical development manufacturing operations (CDMOs).
- Presentation of directional information project and clinical teams.
- Execution of time sensitive technical due diligence assessments.
- Technical on-site audits of contract research organizations, qualification of facilities and processes.
- Support of technology transfer, facilities design and site readiness for production and formulation processes at clinical and commercial manufacturing sites.
- Input on critical material attributes and control strategies for production processes and implementation of these during the CMC development phases.
- Working with cross-functional CMC teams to support radiopharmaceutical development and implementation.
• Working with supply chain to develop novel radioisotope production routes and supply chains.
• Radiation safety and consulting.

Main responsibilities include:
• Design, planning, and execution of multi-step organic radiosyntheses including purification of small molecule, peptide/peptidomimetic, oligonucleotides and large molecules bearing long lived isotopes (C-14/H-3) and/or short-lived radiotherapeutic (e.g. Ac-225) isotopes in high quality and yield.
• Development of novel state-of-the-art methodologies and expedient routes to new tracers.
• Development of new analytical procedures to characterize small, medium and large MW modalities (e.g. nanobody, affibody, antibody).
• Proficiency and knowledge in semi-preparative and preparative chromatographic separation (e.g. HPLC).
• Proficiency and knowledge in the methods, instrumentation and troubleshooting both with HPLC and LCMS.
• Proficiency and knowledge in instrumentation for radiopharmaceutical preparation, purification, analysis, and characterization.
• Summarize and interpret analytical data and prepare detailed and traceable laboratory notebook records.
• Maintain and archive laboratory records pertaining to radiosynthesis, supplies receipt of RAM and safety monitoring according to corporate policies.
• Participate in the writing and execution of patent applications.
• Contribute to scientific publications and deliver presentations at research meetings and/or external conferences.
• Ability to work independently with some supervisory direction, be self-motivated and collaborative in a cross-functional environment.
• Solve complex problems in creative and effective ways and deliver results with specified timeframes.
• Work with contract research organizations, discovery and chemical manufacturing & controls sub-teams.
• Organized and detail oriented, with strong verbal communication and writing skills.
• Perform all work in compliance with site safety and radiation protection guidelines, including effective teamwork and communication with health physicists, authorized users and RSOs.

Required Qualifications
• Ph.D. in Organic Chemistry or similar preferably with post-doctoral experience and 1-2 years of relevant industry experience or a Masters Degree with a minimum of 8 years of experience, or a Bachelors Degree in Chemistry, or related field with a minimum of 10 years of industry experience required.
• Practical knowledge of radiosynthesis.

Working Environment:
• This position will be based in Spring House, PA and may require up to 20% international and domestic travel.
• Willingness to work in facility working with radioactive materials requiring all employees to participate in safety programs.
• Responsibilities also include the ability to lift, walk, bend, stoop, push, pull, reach, and climb stairs with or without accommodation.
• Must possess good hand-eye coordination and fine motor control (hands).
• Physical exertion and/or requirements: Minimal, with ability to safely lift-up to 15 pounds
• Special Senses: Visual and audio focused work
• Work Conditions: Stairs, typing/keyboard, standing and/or sitting working environment of ca. 8 hrs/day

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Research Scientist (Ph.D. Level), Oligonucleotide Chemistry, RNA & Targeted Therapeutics

Janssen Research and Development, a member of Johnson and Johnson's Family of Companies, is recruiting for a Research Scientist, Oligonucleotide Chemistry, RNA & Targeted Therapeutics within Therapeutics Discovery. This position will be based in South San Francisco, CA.

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RNA and Targeted Therapeutics is an organization within Therapeutics Discovery committed to the delivery of high-quality drug candidates in the novel synthetic modalities space working closely with all Janssen Therapeutic Areas (TA) discovery teams.

Our mission requires strategic thinking, portfolio mindset and deep scientific expertise in several disciplines including oligonucleotide chemistry, bioconjugation chemistry, nanotechnology, cellular and molecular pharmacology, and screening technologies coupled with an ability to work collaboratively with internal and external partners. We are currently seeking an outstanding individual to join our team as a Research Scientist – Oligonucleotide Chemistry, RNA & Targeted Therapeutics.

In this laboratory-based position, the successful candidate will partner with both internal and external oligonucleotide chemistry teams to generate innovative solutions to synthetic and drug design challenges within the context of nucleic acid drug discovery projects. She/he will maintain close interactions with computer assisted design scientists, biologists, pharmacologists, and pharmaceutical development scientists. Strong people skills and the ability to thrive in a team and goal driven environment are key attributes.

This individual must also excel in communication and have strong interpersonal skills necessary to influence in a collaborative multidisciplinary environment.

Key Responsibilities:

- Maintaining a high level of productivity in the laboratory setting
- Developing and executing clear synthetic strategies towards chemically modified single and double stranded oligonucleotide sequences and monomers using state-of-the-art synthetic methodologies.
- Collaboratively supporting the advancement of compounds through in vitro and in vivo studies to identify development candidates.
- Supervise and direct synthetic chemistry activities at contract research organizations (CROs)
- Generating novel, testable hypotheses to enable clear decision making.
• Contributing to defining scientific strategies and goals within a project team setting.
• Presenting data and reports on project status at individual, group, and departmental meetings.
• Drafting, executing and serving as lead author on research published in peer reviewed journals, and presenting work at scientific conferences

Qualifications:

• PhD in synthetic organic or medicinal chemistry or nucleic acid chemistry is required
• 2-3 years of Postdoctoral experience or 1-3 years of industry experience with an emphasis on oligonucleotide or nucleoside chemistry is strongly preferred
• Highly skilled in the multistep synthesis, purification, and characterization of small molecules is required
• Strong experience in the solid phase synthesis of oligonucleotides and/or nucleoside/nucleotide synthesis is preferred
• Understanding of nucleic acid modalities, modification chemistries, sequence selection, and mechanism of action is preferred
• Strong track record of scientific contributions including peer reviewed first-author publications, patent applications, and/or presentations at major national meetings is required
• Record of maintaining a strong lab presence directly is required
• This position is located in South San Francisco, CA, and may require approximately 10% travel.

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For more information on how we support the whole health of our employees throughout their wellness, career and life journey, please visit www.careers.jnj.com.

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Scientist (Ph.D. Level), Computer-Aided Drug Design (CADD)

Janssen Research & Development, L.L.C., a division of Johnson & Johnson's Family of Companies, is recruiting for a Scientist, Computer-Aided Drug Design (CADD) located in Spring House, PA (Philadelphia area) or La Jolla, CA (San Diego area)

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As a Scientist in the CADD group, you will:

- Drive the discovery of novel pharmaceuticals through the application of computational methods across a wide variety of drug discovery technologies including DNA encoded libraries, fragment-based lead discovery, targeted protein degradation, peptide-based, and RNA-based therapeutics
- Design molecules and compound libraries using a broad spectrum of computational tools, in collaboration with a team of medicinal chemists
- Use advanced computational techniques, including the latest physics-based and AI/ML-based methods, on Linux-based computers internally and in the cloud to drive the discovery of new medicines
- Serve as a scientific expert in multi-disciplinary discovery project teams that include chemists, structural biologists, and other discovery scientists, by providing key expertise in the use and interpretation of 3D structural data related to drug targets and their ligands/inhibitors.
- Collaborate within Janssen and with external academic and industrial partners to develop new computational technologies to address key questions in drug discovery.
- Publish results in peer reviewed journals and present at scientific meetings.

Qualifications:

- A PhD in Computational Chemistry or related discipline is required (or to be completed before the time of hire)
- A strong scientific track record of publications in peer-reviewed journals and/or patent literature is required.
- Excellent written and verbal communication skills are required.
- Experience in the application of computational chemistry tools and methodologies to the drug discovery process is preferred (examples may include: docking, high-throughput virtual screening, AI/ML, cheminformatics, molecular dynamics, quantum mechanics, and homology modeling).
• Familiarity with one or more commercial computational chemistry packages is preferred (examples might include: Maestro/Schrodinger, MOE/Chemical Computing Group, OpenEye, Pipeline Pilot).
• This position is located in Spring House, PA, and may require up to 10% travel.

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Scientist (Ph.D. Level), Analytical Chemistry

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In this laboratory-based position, the successful candidate will be part of a dynamic team dedicated to the analytical support to medicinal chemistry and impacting Janssen portfolio. The focus will be applying liquid chromatography/mass spectrometry (LC/MS) methods in innovative ways to aid drug design. The candidate will maintain close interactions with scientists from Discovery Chemistry and Discovery Process Research to expedite the compound Design-Make-Test iterations. Strong communication skills and the ability to thrive in a team and results oriented environment are key attributes. The candidate must also have strong interpersonal skills to influence in a collaborative multidisciplinary environment.

**The Scientist, Analytical Chemistry Will Be Responsible For:**

- Together with other members of the group, evaluate and implement new mass spectrometry methods and apply them across different modalities and/or capabilities, such as small molecule drug discovery, peptide drug discovery, DNA-encoded library, target protein degradation and Direct-to-biology.
- Work with the vendor, when it's needed, to maintain and repair spectrometers.
- Communicate results of mass spectral studies to project teams.
- Present results at internal meetings and at external scientific meetings as appropriate.
- Routinely interact with colleagues from therapeutic area project teams and core technology groups to develop and implement strategies to help advance programs.
- Evaluate the scientific literature critically and embrace novel technologies which will facilitate drug discovery projects.

**Qualifications:**

- A Ph.D. in chemistry or related discipline is required, or to be completed within the next 6 months.
- A minimum of 3 years academic/research experience using routine and advanced mass spectral methods to characterize synthetic medicinal compounds for structure and purity determination, is required
- Proven track record in mass spectrometry, such as presentations at major conferences and/or publications on peer-reviewed journals, is required
- Extensive hands-on experience with qualitative LC/MS including new method development is required
- LC/MS experience supporting synthetic/medicinal chemistry through postdoc, internship or industry experience is a plus
• Experience with LC/MS supporting DNA-encoded libraries, peptide discovery, or target protein degradation is preferred
• In-depth knowledge of mass spectrometers from Waters, Agilent, or other vendors, including maintenance, troubleshooting, and automation, is preferred
• Strong background in synthetic organic chemistry is preferred
• A background in high throughput mass spectrometry or use of ion mobility is preferred
• Experience with software platforms such as ChemStation, MassHunter Walk-up, and MassLynx is preferred
• This position is located in Spring House, PA and may require approximately 10% travel.

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Scientist (Ph.D. Level), Informatics

Janssen Research & Development, LLC, a member of Johnson & Johnson's Family of Companies, is recruiting for a Scientist, Informatics to be located in San Diego, CA (La Jolla area) or Spring House, PA (Philadelphia Area).

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The Therapeutics Discovery organization within Janssen R&D is continuing to build key scientific expertise in computational and medicinal chemistry, screening, and pharmacology to partner closely with our outstanding therapeutic area scientists to develop groundbreaking new medicines in the areas of Oncology, Immunology, Neuroscience, Cardiovascular, and Infectious Diseases. We are seeking creative, self-motivated informatics scientists/data scientists to join our In Silico Discovery team to bring their expertise to exciting efforts in drug design across both small molecule and alternative platforms.

Join an enthusiastic, diverse, and global community of internal scientists committed to bringing innovative new medicines to patients. We are expanding our capabilities in informatics across multiple drug discovery platforms. These include, but are not limited to, parallel medicinal chemistry (PMC), targeted protein degradation, high-throughput screening (HTS), DNA-encoded library (DEL) screening, peptide-display discovery, and bioinformatics support for RNA-based therapeutics.

As a Scientist in the Informatics group, you will:

- Develop multidimensional data visualizations from multiple internal and external sources, including chemical structures, biological assay data, and other experimental results to discover new trends and enable improved decision-making in discovery projects.
- Develop workflows, scripts, and tools, including library enumeration, building-block mining, similarity searching, clustering and other methodologies to facilitate the discovery, design, and selection of molecules with improved drug-like properties.
- Assess historical success rates of screening platforms, compound collections, and encoded libraries, and use that data to accelerate the drug discovery process by designing new libraries and screening strategies.
- Design databases and data processes to support screening modalities, including encoded libraries.
- Closely collaborate with other teams within Janssen, including computational chemists, ML/AI scientists, IT, medicinal chemists, and focused chemistry and biology discovery technology groups.

Qualifications:

- PhD in computational chemistry, data science, or a related field is required
- Extensive hands-on experience in cheminformatics (ie. chemical descriptors, similarity, diversity, SAR analysis, properties, library enumeration, design, chemical transformations, etc.) is preferred.
- Hands-on experience with large-scale data mining and analysis, including structured and unstructured data sources, is preferred.
- Experience in the design and enumeration of chemical libraries, including DEL, is preferred.
- Experience with fingerprint- and shape-based similarity searching is preferred.
- Experience with bioinformatics and RNA-based therapeutics is preferred.
- Proficiency with one or more programming, scripting, or querying languages is required. Examples may include Python, Jupyter Notebooks, Java, Pipeline Pilot, or SQL.
- Expertise in generating data visualizations in tools like Spotfire, Vortex, Tableau, DataWarrior is preferred.
- Familiarity with computational chemistry approaches such as molecular modelling, docking, pharmacophore analysis is preferred.
- Familiarity with the application of machine learning (ML)/artificial intelligence (AI) techniques to drug discovery is preferred.
- Excellent written and oral communication skills are required.
- This position is located in La Jolla, CA (San Diego) or Spring House, PA and may require approximately 10% travel.

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