Senior Principal Scientist - in-vivo Imaging

Job ID
REQ-10051302

6   03, 2025

Switzerland

Working primarily within our Diseases of Ageing and Regenerative Medicine (DARe) department at Biomedical Research, this Senior Principal Scientist role will lead in-vivo Imaging with the aim to deliver groundbreaking imaging techniques and technology to support and further Drug Discovery across our key research Disease Areas, including Oncology, Immunology, Neuroscience and Cardiovascular and Metabolic.

About the Role

The successful candidate will provide leadership of an in vivo imaging facility aiming to support the drug discovery process by assessing using imaging techniques (magnetic resonance imaging, ultrasound, computerized tomography, optical imaging) pharmacological interventions in relevant small rodent disease models and to identify/characterize imaging biomarkers.

Key responsibilities will include but not be limited to:

- Leadership of an in vivo imaging facility and line management of laboratory associates with responsibility for coordinating activities and technical development
- Responsibility for maintaining equipment infrastructure as well as leading the development/improvement of techniques to address biological questions related to the projects. Maintenance of the infrastructure to support MRI, ultrasound, micro-CT and optical imaging equipment.
- Development, adaptation, and programming imaging and spectroscopy protocols to address questions of relevance to preclinical pharmacological studies.
- Interpretation, analysis and reporting of data obtained from applying these techniques and presentation of results in both written and oral format at team meetings and to management decision boards.
- Design, execution, analysis and reporting of state-of-the-art in-vivo mouse and rat experiments involving imaging/spectroscopy.
- Integration of in vivo imaging results into ex vivo tissue and biofluid analyses.
- Coordination with project team members across the organization and animal facilities in a matrix manner to ensure timely and successful execution of complex in vivo studies.
- Support the characterization of translational imaging biomarker candidates, in collaboration with the clinical imaging group at Novartis

Minimum Requirements – what you will bring to the role:

- Scientific background in a relevant discipline (Physics, Chemistry, Engineering or Life Science) with a PhD and Postdoctoral research, with at least 2-3 years' experience in industry or with equivalent academic experience. Your academic and industry experience must include extensive in vivo experimentation and research applying imaging .
- Relevant experience in in-vivo imaging of small rodents documented through publications.
- Lab experience in in-vivo MR techniques with both the technical expertise as well as biological background to guide the application to in vivo experimentation.
- Prior Management experience managing an in vivo imaging laboratory within an academic or industrial environment with people leadership.
- Highly motivated to learn more about diseases of aging and regenerative medicine.
- Proactive and dynamic attitude with a demonstrable inquisitive mindset and a proven ability to formulate, articulate, and critically evaluate scientific experiments.
- Excellent teamwork skills and aptitude to work and thrive in cross disciplinary teams.
- High learning agility and a desire to be up to date with the latest animal work.
- Fluency in written and oral English with excellent presentation skills.

Technical Skills:

- Experience with in vivo anatomical (MRI, CT, ultrasound) and molecular imaging techniques (e.g. PET, optical) and with in vivo spectroscopy (e.g. 31P MRS).
- Programming skills in the Bruker environment as well as in image analysis (e.g. Matlab).
- Data Analysis.
- Hypothesis Testing.
- Problem Solving.
- Accreditation for animal experimentation (LTK1/LTK2, FELASA B or equivalent).

Accessibility and accommodation
Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to inclusion.switzerland@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

Benefits and Rewards: Read our handbook to learn about all the ways we'll help you thrive personally and professionally: https://www.novartis.com/careers/benefits-rewards
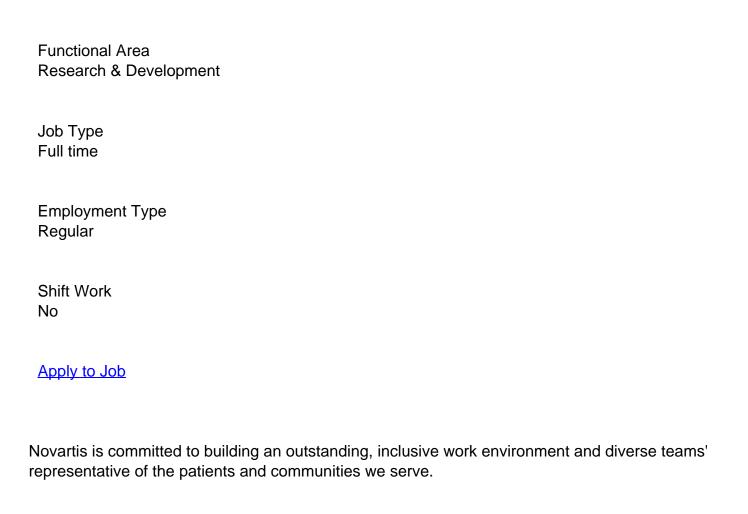
Biomedical Research

Business Unit
Pharma Research

Switzerland

Basel (City)

Company /Legal Entity
C028 (FCRS = CH028) Novartis Pharma AG

Functional Area
Research & Development

Job Type
Full time

Employment Type
Regular

Shift Work
No

[Apply to Job](#)

Novartis is committed to building an outstanding, inclusive work environment and diverse teams'
representative of the patients and communities we serve.

Job ID
REQ-10051302

Senior Principal Scientist - in-vivo Imaging

[Apply to Job](#)

Source URL:
https://www.novartis.com.cn/careers/career-search/job/details/req-10051302-senior-principal-scientist-vivo-imaging

List of links present in page

1. https://www.novartis.com/about/strategy/people-and-culture
2. https://talentnetwork.novartis.com/network
3. https://www.novartis.com/careers/benefits-rewards
4. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Senior-Principal-Scientist---in-vivo-ImagingREQ-10051302
5. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Senior-Principal-Scientist---in-vivo-ImagingREQ-10051302