

Data Scientist, Imaging " >

Job ID

328914BR

Nov 11, 2021

USA

Job Description

6000! That's the number of associates in the Novartis Institutes for BioMedical Research (NIBR). This division is the innovation engine of Novartis, focusing on powerful new technologies that have the potential to help produce therapeutic breakthroughs for patients. Analytical Sciences and Imaging, a platform group at NIBR, is developing cutting edge analytical techniques to enable new therapeutic platforms to deliver transformative medicines.

We have an exciting opportunity for a Data Scientist, Imaging to join an innovative and transformative team. In this role, you will have an opportunity to work on advanced microscopy and imaging techniques and advanced image analysis to extract quantitative robust readouts that enable project decisions. You collaborate to devise and develop analysis solutions which are grounded in the critical needs of the project team to push the drug discovery process forward and contribute to robust pipeline analysis solutions as well as drive new algorithm development on challenging analysis projects. As part of this data driven team, you interface with experimental and computational experts across the institute and collaboratively innovate to design new readouts that make positive impact on NIBR's drug hunting. Ready to be at the forefront of drug discovery and biomedical research? Join us today.

This dynamic environment of interaction between biologists, chemists, imaging scientists, and data scientists requires a collaborative and iterative approach starting from the initial pilot experiments to proof-of-concept analysis back to refinement of experimental design again. Our Microscopy and Biophotonics team develops and delivers new imaging and microscopy-based assays across a range of disease areas including neuroscience, immuno-oncology, oncology, ophthalmology, cardiovascular, and respiratory disease.

What you'll be doing:

- Work with the team's imaging experts to identify core readouts that would impact project team decisions and collaboratively develop experimental protocols for optimal quantification.
- Take ownership in the implementation of image analysis approaches under a fail-fast paradigm.
- Identify opportunities to automate common image analysis tasks performed by the imaging team.
- Communicate results to project teams comprising scientists of diverse backgrounds.
- Coordinate with IT and the department's data science team to manage and develop necessary computational infrastructure.

Diversity & Inclusion / EEO

The Novartis Group of Companies are Equal Opportunity Employers and take pride in maintaining a diverse environment. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, gender, national origin, age, sexual orientation, gender identity or

expression, marital or veteran status, disability, or any other legally protected status. We are committed to building diverse teams, representative of the patients and communities we serve, and we strive to create an inclusive workplace that cultivates bold innovation through collaboration and empowers our people to unleash their full potential.

Minimum Requirements

What you'll bring to the role:

- B.S. in Biomedical Engineering, Computer Science or related quantitative field and 4+ years of relevant experience or M.S. and 2+ years of relevant experience.
- Experience in analyzing biomedical imaging data, e.g., fluorescence microscopy, in vivo imaging, live-cell imaging.
- Experience in Python and the use of core PyData ecosystem tools, e.g., Jupyter notebooks, Pandas, etc.
- Demonstrated good software development practices such as version control, designing analyses with reproducibility and robustness in mind.
- Demonstrated examples of app and pipeline building, metadata management.
- Familiarity with deep learning image analysis methods, e.g., image segmentation, classification.

Desirable:

- PhD in biomedical engineering, computer science or related quantitative field with 0-1 years of experience.
- Wet lab experience / strong biological background.
- Experience in drug discovery environment.
- Strong publication history devising image analysis solutions to tackle biological problems.
- Experience using high performance computing (HPC) clusters or other distributed computing systems.
- Experience with interactive data visualization frameworks (Streamlit, Plotly, Bokeh, HoloViews, etc.).

You'll receive:

Competitive salary, annual bonus, pension scheme, share scheme, health insurance, 25 days annual leave, flexible working arrangements, subsidized dining facilities, employee recognition scheme and learning and development opportunities as well.

Commitment to Diversity & Inclusion:

Novartis embraces diversity, equal opportunity and inclusion. We are committed to building diverse teams, representative of the patients and communities we serve, and we strive to create an inclusive workplace that cultivates bold innovation through collaboration and empowers our people to unleash their full potential.

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here:

<https://talentnetwork.novartis.com/network>

Why Novartis?

769 million lives were touched by Novartis medicines in 2020, and while we're proud of this, we know there is so much more we could do to help improve and extend people's lives.

We believe new insights, perspectives and ground-breaking solutions can be found at the intersection of medical science and digital innovation. That a diverse, equitable and inclusive environment inspires new ways of working.

We believe our potential can thrive and grow in an unbossed culture underpinned by integrity, curiosity and flexibility. And we can reinvent what's possible, when we collaborate with courage to aggressively and ambitiously tackle the world's toughest medical challenges. Because the greatest risk in life, is the risk of never trying!

Imagine what you could do here at Novartis!

Division

NIBR

Business Unit

BIOTHERAPEUTIC AND ANALYTICAL TECHNOLOGIES - NIBR

Location

USA

Site

Cambridge, MA

Company / Legal Entity

NIBRI

Functional Area

Data Science

Job Type

Full Time

Employment Type

Regular

Shift Work

No

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