

AI Scientist – Image Analysis & Digital Pathology

Job ID

REQ-10084321

Jul 28, 2026

LOC_US

About the Role

Key responsibilities:

- Develop and apply AI / deep learning approaches to extract insights from digital pathology imaging datasets (e.g., H&E, IHC, mIF, Spatial transcriptomics).
- Work with foundational models, including pre-trained, self-supervised, multi-purpose, and multi-modal models to advance generative AI applications in drug discovery.
- Support imaging biomarker development efforts by analyzing pathology imaging data and collaborate with pathologists and translational teams to interpret image-derived biomarkers and biological findings.
- Contribute to evaluation, validation, and benchmarking of image analysis algorithms and workflows.
- Perform tissue segmentation, cell phenotyping, feature extraction, and spatial analysis using state-of-the-art computational approaches.
- Stay current with advances in computational pathology, AI/ML, and spatial biology technologies; contribute to scientific publications; and present results at internal and external scientific conferences.

Requirements:

- Ph.D. in Machine Learning, Computer Science, Applied Mathematics, Computational Biology or related field. Candidates with MSc in Machine Learning, Computer Science, Applied Mathematics, Computational Biology or related field, with 4+ years of relevant industry experience will also be considered.
- Strong experience analyzing pathology imaging modalities including H&E, IHC, multiplex IF, and / or spatial transcriptomics data.
- Understanding of machine learning methods for segmentation, classification, detection, and representation learning.
- Experience in one or more of the following areas: generative AI, digital pathology foundation models, geometric deep learning and / or multi-modal learning.
- Excellent programming skills and proficiency in deep learning frameworks such as PyTorch, with openness to learning new tools and technologies.
- Strong communication and collaboration skills with the ability to communicate complex data insights and recommendations to cross-functional teams.
- Strong research skills, evidenced by publications in leading scientific journals and / or conference presentations.

Rewards

At Novartis, we're committed to reimagining medicine together - and rewarding the people who make it happen.

The rewards of being part of our team go far beyond base pay and incentives. We also offer a variety of competitive benefits in kind to help you thrive personally and professionally, such as insurance plans, retirement plans, wellbeing resources and global recognition programs. In addition, we provide flexible and hybrid working options, where possible, and a minimum of 14 weeks paid parental leave.

Expected Annual Base Salary Range for role:

- US: 126,000.00 - 234,000.00 USD Annual

The salary offered is determined based on gender-neutral objectives, such as relevant skills, competencies and experience in accordance with the Novartis pay setting policy and upon joining Novartis will be reviewed periodically.

In addition to your base salary, you may be eligible for a performance-based bonus depending on certain performance parameters. Further details will be provided during the application process.

Pay equity is a fundamental principle of our employment policy and reflects our commitment to create a diverse, equitable and inclusive environment that treats all employees with dignity and respect, as outlined in our Code of Ethics.

Read our [brochure](#) to learn more about our global total rewards offering: https://www.novartis.com/sites/novartis_com/files/novartis-life-handbook.pdf

Note: Benefits and compensation may vary by country and are subject to local legal requirements, including provisions of collective bargaining agreements where applicable. A full overview of your compensation package, including any relevant collective bargaining agreement details applicable to your role based on your employment location and Novartis employer entity, will be communicated separately to you during the application process.

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>

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>

Role Requirements

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[Read our handbook \(PDF 30 MB\)](#)

Division

DIV_RE

Business Unit

Research

Location

LOC_US

Site

Cambridge (USA)

Company / Legal Entity

U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area

FCT_DD

Job Type

Full time

Employment Type

Regular

Shift Work

No

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