NOVARTIS

Principal Data Scientist Imaging and Vision AI Researcher

Job ID
391527BR
Sep 10, 2024
USA

Summary

Location: Cambridge, MA #LI-Hybrid

The AI & Computational Science (AICS) is the dedicated AI team at Novartis Biomedical Research innovating drug discovery. We aim to accelerate discoveries of transformative medicines for patients worldwide.AI & Computational Science (AICS) is seeking a highly motivated and experienced incoming "Principal AI researcher" in the domain of Image/Vision to push the frontier in Life Sciences and drug discovery. At AI & Computational Sciences (AICS), you will take on a senior technical leadership role at the intersection of science R&D and real-world impact.

About the Role

Key responsibilities

- Lead AI research projects independently, focusing on imaging and vision applications within pharmaceutical research and development using scientific, rigorous, and reproducible methodology
- Develop and implement state-of-the-art AI algorithms for image processing, analysis, segmentation, and interpretation, focusing on data modalities such as MRI, histopathology, echocardiograms, lab animal video data or other image modalities used in biological research.

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- Collaborate with other AI specialists, data architects, software engineers, business analysts, user interface designers within RX on products in the Image/Vision domain
- Act as an Imaging and data science subject matter expert, to help commodify AI and data analytics expertise and assets into impactful analysis workflows and software products, and to help make our research data FAIR
- Engage with diverse stakeholders in clinical as well as non-clinical settings
- Serve as an ambassador for AI/Data Science by presenting and publishing articles.
- Build a bridge between academia, technology, and industry partners.
- Keep ahead of latest developments in the field and mentor associates.
- Be a part of a truly unique organization, work with an inter-disciplinary team of highly accomplished scientists and push the **AI** frontiers for disease understanding and drug discovery.

This opportunity is located at the Novartis Cambridge (MA) site and will not have the ability to be located remotely. Relocation assistance may be available.

The pay range for this position at commencement of employment is expected to be between $144,000 and $216,000 per year; however, while salary ranges are effective from 1/1/24 through 12/31/24, fluctuations in the job market may necessitate adjustments to pay ranges during this period. Further, final pay determinations will depend on various factors, including, but not limited to geographical location, experience level, knowledge, skills and abilities. The total compensation package for this position may also include other elements, including a sign-on bonus, restricted stock units, and discretionary awards in addition to a full range of medical, financial, and/or other benefits (including 401(k) eligibility and various paid time off benefits, such as vacation, sick time, and parental leave), dependent on the position offered. Details of participation in these benefit plans will be provided if an employee receives an offer of employment. If hired, employee will be in an "at-will position" and the Company reserves the right to modify base salary (as well as any other discretionary payment or compensation program) at any time, including for reasons related to individual performance, Company or individual department/team performance, and market factors.

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.

Role Requirements

- Ph.D. in Computer Science, AI, Machine Learning, or a related field with a focus on imaging and vision applications.
- Minimum of 5 years of experience in AI research, specifically in imaging and vision applications.
- Applied knowledge of image/vision data modalities used in biological research or clinical settings
- Minimum of 4 years of relevant publication track record in machine learning applications and AI/ML methods
- Proven experience in leading AI research projects independently.
- Strong understanding of advanced machine learning algorithms and AI systems.
- Extensive experience in using AI for image analysis, particularly in a pharmaceutical setting.
- Proficient in programming in AI platforms such as TensorFlow, PyTorch, or Keras.
- Strong ability to communicate technical concepts to a variety of audiences, including scientists, engineers, and non-technical stakeholders.
- Familiarity with pharmaceutical research processes and requirements.
- Strong problem-solving skills and the ability to think creatively and innovatively.

Why Novartis?
766 million lives were touched by Novartis medicines in 2021, 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!

Commitment to Diversity & Inclusion:
Novartis is committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

Accessibility and Reasonable Accommodations: Individuals in need of a reasonable accommodation due to a medical condition or disability for any part of the application process, or to perform the essential functions of a position, please send an e-mail to tas.nacomms@novartis.com or call +1 (877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to hear more about Novartis and our career opportunities, join the Novartis Network here: https://talentnetwork.novartis.com/network

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

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Principal Data Scientist Imaging and Vision AI Researcher

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