

Applied Computational Biologist, Renal II

Job ID
393710BR
Apr 24, 2024
USA

Summary

Internal Job Title: Senior Expert II, Data Science

Location: Cambridge, MA

About this role:

Novartis Biomedical Research is our innovation engine where public and private research merge to substantiate novel drug candidates and evaluate novel biomedical technologies to make medicine. We are seeking a creative and collaborative investigator practiced in wet and dry lab research to join our mission to develop transformative new therapies for patients with chronic and acute renal diseases.

The successful candidate will work at the cutting edge of applied data science to model and test important priorities in translational research. Your participation on project teams will require iterative mining and modeling complex, multi-modal data to drive drug discovery and early development. As a member of Novartis, the successful candidate will participate in a global community with extensive know-how and resources in data analysis, data engineering, machine learning, experimental techniques and resources to test biomedical hypotheses derived from computed models. As a member of the Translational Research & Data Science group in DAX, your role as Senior Expert Data Scientist II will leverage your experience and knowledge in general medicine unmet needs, especially renal maladies.

Key Responsibilities:

- A background in Human genetics, including statistical genetics, epidemiology, clinical diagnostics, or a related field
- Applying established and novel approaches to support translational genetic modeling between clinical and pre-clinical programs to advance departmental aims
- Developing and applying your genetic mining and modeling efforts to support project teams, including disease association mining studies, drug target allelic series characterization, and support design of preclinical model systems
- Working closely with a core team of Translational Research & Data Science scientists fluent in wet and dry lab practices
- Actively participate on interdisciplinary teams to model biology and guide impactful decision-making in drug discovery and early development
- Actively participate in alliances with external partners at top healthcare institutions, including the opportunity to publish your findings

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Essential Requirements:

- PhD in life sciences and 3+ years of industry experience modeling biomedical genetic data
- Demonstrated working knowledge and application of statistics and genetics to large scale life-sciences data
- Hands-on industry experience with clinical data and its responsible handling
- Proficiency in R/Python and competency working in a Linux environment
- Proficiency with genetic modeling software, including Plink, Vep, Polyphen2, Haploview, Gatk, and related software
- Reproducible research practitioner with demonstrated visualization and reporting skills
- A team-oriented, practical approach to problem solving

Desirable Requirements:

- A commitment to prioritizing patient unmet medical needs
- Hands-on experience in integration of large multi-omics data (genomics, transcriptomics, proteomics and metabolomics) to answer key scientific questions related to precision medicine and understanding disease
- A commitment to alignment with departmental priorities
- Strong written and oral communication skills

Why Novartis: Our purpose is to reimagine medicine to improve and extend people's lives and our vision is to become the most valued and trusted medicines company in the world. How can we achieve this? With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: <https://www.novartis.com/about/strategy/people-and-culture>

You'll receive: You can find everything you need to know about our benefits and rewards in the Novartis Life Handbook: <https://www.novartis.com/careers/benefits-rewards>

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Novartis Compensation and Benefit Summary: The pay range for this position at commencement of employment is expected to be between \$144,000 to \$216,000/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.

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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>

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Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

Site

Cambridge (USA)

Company / Legal Entity

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

Functional Area

Data Science

Job Type

Full time

Employment Type

Regular

Shift Work

No

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