

# Applied Computational Biologist

Job ID  
REQ-10021225  
Sep 04, 2024  
USA

## Summary

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 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 model

## About the Role

Internal Job Title: Senior Expert I, Data Science

Position 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 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.

### Key Responsibilities:

- Applying established and novel approaches to model multi-modal clinical data to identify biomarkers predictive of disease progression and treatment response, and to nominate novel therapeutic target hypotheses
- Developing and applying a portfolio of pre-clinical models derived from internal and public data to departmental projects

- 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

**Essential Requirements:**

- PhD or equivalent life sciences industry experience modeling biomedical research data
- Demonstrated working knowledge and application of statistics and data modeling to large scale life-sciences data
- 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
- Hands-on industry experience with clinical data and its responsible handling
- Proficiency in R/Python and competency working in a Linux environment
- 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

**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>

**Commitment to Diversity and 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.

**Novartis Compensation and Benefit Summary:** The pay range for this position at commencement of employment is expected to be between \$130,400 to \$195,600/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.

**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>

**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>

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

**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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