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THE POSITION

A healthier future. It's what drives us to innovate. To continuously advance science and ensure everyone has access to the healthcare they need today and for gen
Creating a world where we all have more time with the people we love. That's what makes us Roche.

Advances in AI, data, and computational sciences are transforming drug discovery and development. Roche's Research and Early Development organisations at Ge
Pharma (pRED) have demonstrated how these technologies accelerate R&D, leveraging data and novel computational models to drive impact. Seamless data sharin
across gRED and pRED are essential to maximising these opportunities. The new Computational Sciences Center of Excellence (CoE) is a strategic, unified group w
the transformative power of data and Artificial Intelligence (AI) to assist our scientists in both pRED and gRED to deliver more innovative and transformative medic
worldwide.

The Opportunity

At Prescient Design, we are revolutionizing drug discovery with cutting-edge machine learning techniques. We are seeking talented engineers with a passion for bu distributed machine-learning algorithms and systems that will transform the drug discovery process.

The Frey lab within the Large Molecule AI/ML Department of Prescient is looking for exceptional machine learning scientists who want to perform high-quality rese section of machine learning and biology that have a direct impact in large molecule drug discovery. Researchers will primarily focus on the deep learning subfield o should have a strong interest in fundamental research in self-supervised learning and training and fine-tuning foundation models.

In this role, you will:

- Develop novel Computational Biology/Machine Learning methods to answer challenging research questions in LMDD
- Work with the Genentech Large Language Model team to build and apply LLMs for therapeutic molecule design
- Work with biological data from heterogeneous sources
- Form close working relationships with research teams across the gRED organization
- Contribute to and drive publications and present scientific findings at internal/external venues.

Who you are

- You have a PhD degree in Computer Science, Computational Biology, Physics or related disciplines, or an MS degree in the above disciplines with 3+ years of inc experience.
- You have demonstrated experience with Python and deep learning libraries such as Pytorch and/or Jax.
- You have demonstrated research experience, including at least one first-author publication or equivalent.
- You have strong communication and collaboration skills

Preferred

- Experience working with data from biology, immunology or related disciplines
- Experience with research related to large language models
- Public portfolio of computational projects (available on e.g. GitHub)

Relocation benefits are available for this job posting

The expected salary range for this position based on the primary location of New York City is $160,100 - 297,300. Actual pay will be determined based on experie geographic location, and other job-related factors permitted by law. A discretionary annual bonus may be available based on individual and Company performance qualifies for the benefits detailed at the link provided below. (http://https//roche.ehr.com/default.ashx?CLASSNAME=splash)

Benefits (http://https//roche.ehr.com/default.ashx?CLASSNAME=splash)

#ComputationCoE

#tech4lifeComputationalScience

#tech4lifeAI

Genentech is an equal opportunity employer. It is our policy and practice to employ, promote, and otherwise treat any and all employees and applicants on the bas qualifications, and competence. The company's policy prohibits unlawful discrimination, including but not limited to, discrimination on the basis of Protected Vete with disabilities status, and consistent with all federal, state, or local laws.

If you have a disability and need an accommodation in relation to the online application process, please contact us by completing this form Accommodations for A (https://docs.google.com/forms/d/e/1FAIpQLSdZWIsbfQOvFVIQgHE_iDzWUTlhZvj6FytIzjS7xq6IGh1H5g/viewform).

JOB FACTS

Job Sub Category

Artificial Intelligence & Machine Learning

Schedule

Full time

Job Type

Regular

Posted Date

Jul 16th 2025