



POSITION OVERVIEW

We are seeking a highly motivated Scientist in Bio AI to join our cutting-edge research and innovation team at the intersection of biology, artificial intelligence, and data-driven discovery. The ideal candidate will apply AI/ML methods to accelerate insights in genomics, systems biology, synthetic biology, and biomanufacturing. This role offers the opportunity to work in a highly interdisciplinary environment, driving innovation in healthcare, sustainability, and the bioeconomy.

KEY RESPONSIBILITIES

The responsibilities of the scientist would include, but are not limited to, the following

1. Conduct high-impact translational research using classic computational tools, AI, and quantum tools to design novel molecules and pathways for health, food, and environmental applications.
 - Integrate multi-omics data to model virtual pathways and cells.
 - Build AI/ML models for genomics, proteomics, metabolomics, imaging, and multi-omics integration.
 - Develop predictive and generative models for protein design, pathway optimization, drug discovery, and biomanufacturing.
 - Collaborate with experimental teams to validate AI-driven predictions in the lab.
 - Create knowledge graphs and data pipelines to structure biological insights.
 - Drive innovation through high-impact publications and intellectual property (patents, algorithms, pipelines).
2. Publish research findings in good journals and present at international conferences.
3. Participate in grant writing and fundraising activities
4. Foster collaborations with global academic institutions and industry leaders
5. Contribute to the academic mission by designing courses, teaching and mentoring students in bio-AI, computational biology, and data-driven biodesign

QUALIFICATIONS AND EXPERTISE

- PhD or equivalent in Computational Biology, Bioinformatics, Computer Science, AI/ML, Systems Biology, or related fields.
- Strong expertise in machine learning, deep learning, or generative AI, with applications in biology or chemistry.
- Proven experience in handling large-scale biological datasets (genomic, proteomic, imaging, multi-omics).

- Proficiency in programming (Python, R, TensorFlow, PyTorch, or equivalent).
- Strong understanding of molecular biology, biochemistry, or systems biology.
- Track record of scientific publications and/or patents.
- Excellent communication skills and ability to thrive in a collaborative, interdisciplinary team.

BENEFITS AND OPPORTUNITIES

- Opportunity to work at the frontier of AI and life sciences, shaping the future of biomanufacturing and healthcare.
- Access to state-of-the-art computational and experimental facilities.
- Competitive salary and benefits package.
- Career growth through publications, patents, and translational projects with industry partners.
- Be part of an internationally connected ecosystem, with collaborations spanning academia, startups, and industry leaders.
- A dynamic workplace that values innovation, interdisciplinary collaboration, and societal impact.

APPLICATION PROCESS

- A cover letter outlining Research Plan, Teaching Statement
- A detailed CV, including publication record.
- Contact details of three professional references

Apply by: October 15, 2025
Position start date: January 01, 2026
Submit application to: director@cvjsynbio.org

Note: All applications will be thoroughly reviewed - **only** shortlisted candidates will be contacted for an interview.
