

AI / Bioinformatics Engineer

Position Title: AI / Bioinformatics Engineer

Department: AI & Precision Medicine

Reports To: Chief Scientific Officer (or designee)

Location: LA

Status: Full-Time

About CureScience Institute

CureScience Institute is a nonprofit translational research organization dedicated to accelerating precision medicine and personalized therapeutic strategies for cancer, neurological disorders, and other complex diseases. Through advanced bioinformatics, artificial intelligence, clinical collaboration, and patient-centered innovation, CureScience works to bridge the gap between scientific discovery and real-world patient impact.

Position Summary

The AI / Bioinformatics Engineer will play a key role in designing, developing, and scaling computational systems that support CureScience's precision medicine initiatives. This position will focus on integrating artificial intelligence, machine learning, bioinformatics workflows, and clinical data analysis to advance personalized treatment recommendations, biomarker discovery, and translational research programs.

The successful candidate will work closely with scientists, clinicians, software developers, and external collaborators to develop scalable computational infrastructure that supports CureScience's growing portfolio of precision oncology and immunotherapy programs.

Key Responsibilities

Artificial Intelligence & Machine Learning

- Design and implement AI-driven analytical tools for precision medicine applications.
- Develop predictive models to support treatment prioritization, biomarker identification, and therapeutic matching.
- Evaluate emerging AI technologies and assess their applicability to CureScience programs.

- Support the development of future precision treatment algorithms and decision-support systems.

Bioinformatics & Data Analysis

- Develop and maintain bioinformatics pipelines for genomic, transcriptomic, proteomic, and immunologic datasets.
- Analyze complex multi-omic datasets to identify clinically relevant findings and research opportunities.
- Collaborate with scientific staff on interpretation of sequencing and molecular profiling data.
- Support generation of scientific reports and patient-specific analytical outputs.

Platform & Infrastructure Development

- Build scalable computational workflows that improve efficiency, reproducibility, and automation.
- Support cloud-based and local computational environments.
- Develop tools for data integration, visualization, and workflow management.
- Contribute to long-term AI infrastructure supporting CureScience and future commercialization initiatives.

Research Collaboration

- Work closely with internal scientific teams, clinical collaborators, and strategic partners.
- Participate in manuscript preparation, grant development, and scientific presentations.
- Assist with pilot projects evaluating novel biomarkers, therapeutic targets, and precision medicine approaches.
- Contribute to CureScience's future computational research and innovation programs.

Qualifications

Required

- Master's degree or PhD in Bioinformatics, Computational Biology, Computer Science, Data Science, Biomedical Engineering, or related field.
- Experience developing bioinformatics pipelines and analyzing biological datasets.

- Proficiency in Python, R, or related scientific programming languages.
- Experience with machine learning frameworks and AI model development.
- Familiarity with genomic and molecular biology concepts.
- Strong analytical, problem-solving, and communication skills.

Preferred

- Experience working with next-generation sequencing (NGS) datasets.
- Experience with cloud computing platforms and scalable data infrastructure.
- Knowledge of cancer biology, immunology, or precision medicine applications.
- Experience integrating multi-omic and clinical datasets.
- Prior work in translational research, biotechnology, healthcare, or life sciences environments.

Success Measures

The AI / Bioinformatics Engineer will be expected to:

- Advance development of scalable precision medicine algorithms.
- Improve internal computational workflows and analytical capabilities.
- Support generation of high-quality scientific and clinical insights.
- Contribute to future AI-enabled products, platforms, and partnerships.
- Strengthen CureScience's computational infrastructure and translational research capacity.

Why Join CureScience?

This role represents a unique opportunity to help shape the future of precision medicine within a mission-driven nonprofit organization. The AI / Bioinformatics Engineer will directly contribute to innovative programs designed to accelerate personalized treatment strategies and improve outcomes for patients facing complex diseases.

The position offers the opportunity to work alongside leading scientists, clinicians, and technology innovators while helping build the next generation of AI-enabled precision medicine tools and platforms.

How to Apply

Qualified candidates are encouraged to submit a resume and brief note of interest outlining their background and interest in the position.

Please email your resume and note of interest to chris@curescience.org.

CureScience Institute is an equal opportunity employer committed to fostering a diverse, inclusive, and collaborative environment that advances innovation and scientific discovery.