



Bioinformatics Scientist — Structural Biology & Antibody Eng

Job Information

Recruiter

United World Inc

Job ID

1584550

Industry

Chemical, Raw Materials

Job Type

Permanent Full-time

Location

Japan

Salary

3 million yen ~ 7 million yen

Refreshed

May 27th, 2026 08:00

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Basic

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

[Job Summary]

We are looking for a versatile, mid-level Bioinformatician to join our growing team. This is a high-impact role where you will directly influence our drug discovery pipeline by transforming raw wet-lab screening data into therapeutic leads. As an early member of the computational team in a startup environment, you will be a "full-stack" contributor—responsible for both the technical execution of NGS pipelines and the strategic interpretation of emerging biotech trends.

[Key Responsibilities]

- NGS Data Execution: Execute and refine pipelines to process high-throughput sequencing data from various display platforms (Phage, Yeast, or B-cell screening).
- Candidate Discovery & Ranking: Identify and prioritize antibody leads by analyzing clonal enrichment, sequence diversity, and predicted "developability" (e.g., avoiding aggregation or immunogenicity).
- Cross-Functional Collaboration: Act as the primary bridge between data and the bench. You will partner closely with wet-lab scientists to interpret screening results and provide rapid feedback to iterate on experimental designs.
- Literature & Tech Scouting: Proactively perform literature surveys and technical "benchmarking" to keep the team informed on the latest developments in AI-driven antibody discovery and NGS methodology.
- Pipeline Evolution: Maintain and improve our Python-based codebase, ensuring it is flexible enough to incorporate new algorithms or public datasets as the field evolves.

Required Skills

[Required Qualifications]

- Education: Master's degree or higher in Life Sciences, Bioinformatics, or a related field (or equivalent practical experience).
- Experience: At least 4 years of research experience in bioinformatics, with a strong emphasis on protein sequence analysis.
- Programming: High proficiency in Python and its data science ecosystem (pandas, NumPy, Biopython, Scikit-learn).
- Communication: Exceptional ability to communicate complex computational findings to non-specialists. You should be comfortable presenting data to diverse teams and stakeholders.

Strategic Thinking: A proven track record of staying up-to-date with academic and industry trends; ability to conduct independent research/surveys to solve novel biological problems.

- Soft Skills & "Startup Fit"

Adaptability: You thrive in a fast-paced environment where priorities can shift based on the latest lab results.

- Collaboration: You are a proactive team player who values collective success over individual coding tasks.
- Curiosity: You have a genuine passion for immunology and a desire to understand the "why" behind the data.
- Business level / Fluent English

[Preferred Qualifications]

- Published papers in computational biology conferences/journals.
- Experience with molecule or protein design.
- Experience in a biotech or pharmaceutical R&D setting.

Company Description