



## Scientist, Antibody Design and Protein Engineering

### Company:

Visterra is a clinical stage biotechnology company committed to developing innovative antibody-based therapies for the treatment of patients with kidney diseases and other hard-to-treat diseases. Our proprietary technology platform enables the design and engineering of precision antibody-based product candidates that specifically bind to, and modulate, key disease targets. Applying this technology to disease targets that are not adequately addressed by traditional therapeutic approaches, we are developing a robust pipeline of novel therapies for patients with unmet needs. Our most advanced program is in Phase 2 clinical development.

Visterra is a wholly-owned subsidiary of Otsuka America, Inc., which is a U.S. holding company and a wholly owned subsidiary of Otsuka Pharmaceutical Co., Ltd. of Japan. Visterra has approximately 50 employees and is located in Waltham, Massachusetts.

### Summary:

Visterra is seeking a highly talented and motivated **Scientist** to join our Computational Biology group. This individual will work on challenging design projects and work closely with other computational biologists and experimentalists to develop and apply a variety of computational methods for the design and analysis of novel therapeutics. The candidate will be involved in developing and applying cutting-edge methods in structure-function analysis, rational and computational protein design, and antibody repertoire analysis. Candidates should ideally possess a strong background in various aspects of structural biology, bioinformatics, protein design, and machine-learning methods. The position requires the candidate to be highly motivated, demonstrate a strong desire to learn, be a critical thinker, and work in an interdisciplinary team environment. This is a full-time position located at Visterra's offices in Waltham, MA.

### Key duties and responsibilities:

- Develop and implement strategies for incorporating advanced analytics and machine learning in protein design to guide the design of biotherapeutics.
- Collaborate with other computational and experimental scientists to support structure- and property-based design of therapeutic proteins and antibodies.
- Perform bioinformatics analysis of NGS datasets.
- Independently analyze scientific results, troubleshoot methods and conceive creative solutions and workflows to address challenges.
- Prepare documents and present project updates, results, and strategies to internal teams.
- Develop research plans and manage multiple workflows and activities.
- May include management of direct reports.



## Minimum Qualifications

- A Ph. D. or equivalent in computational biology, bioinformatics, structural biology, or a related discipline with significant and extensive experience in protein design.
- Strong knowledge of the experimental and computational aspects of protein structure/function and engineering.
- Strong background in bioinformatics.
- Experience with working on large, complex datasets.
- Highly proficient with Python.
- Highly proficient with Linux, including experience using high performance computing environments.
- Proficient in tools/algorithms used for computational design and analysis of proteins.
- Ability to work in multi-disciplinary teams, displaying excellent interpersonal skills.
- Exceptional communication skills (written and verbal), with a proven ability to convey complex ideas in a clear, precise, and actionable manner to diverse teams at all levels of the organization.

## Preferred Qualifications:

- Prior experience with biologics and therapeutic antibodies.
- Prior experience in analyzing NGS data.
- Prior experience in genomics analysis or antibody repertoire analysis.
- Experience in application of machine learning methods.

**Management responsibilities:** This position may include supervisory responsibilities

**Travel:** Possible travel to local and national conferences

*Visterra provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.*