



**DIRECTOR OF PROTEIN ENGINEERING
DISCOVERY RESEARCH
POSITION DESCRIPTION**

Job Title: Director of Protein Engineering – Discovery Research
Reports to: Vice President - Research
Classification: Full – Time, Exempt, Salaried

Position Summary: Aeglea BioTherapeutics, based in Austin Texas is actively recruiting for a Director of Protein Engineering to support the Inborn Errors of Metabolism (IEM) and Oncology pipeline. The candidate will be responsible for the advancement of Aeglea’s human enzyme engineering efforts which is focused on the identification of modified human enzymes with activities which have the potential to address areas of high unmet medical need. The candidate will collaborate with our integrated clinical and research team and our manufacturing group to:

1. Drive the identification and progression of new enzyme programs,
2. Expedite a drug candidate’s advancement via efficient design, planning and implementation of engineering strategies for different enzyme scaffolds.

The successful individual will be tasked with the development of a multi-disciplinary protein engineering group, and it is anticipated that the successful candidate will be entrepreneurial, playing an important leadership role in shaping the foundations of the research infrastructure and culture of the Research organization.

Essential Duties and Responsibilities: To perform this job successfully, an individual must be able to perform the following:

- Execute on the discovery and clinical translation of candidate molecules focused on the treatment of IEM and oncology into clinical candidates.
- Evaluate new enzyme scaffolds and produce new lead and clinical candidate molecules through establishing engineering strategies to optimize substrate specificity, activity, expression and manufacturing readiness
- Where necessary integrate cellular screening approaches into engineering strategies
- Clearly articulate engineering project flow schemes, timelines and resource needs for research programs
- Ensure seamless integration between protein engineering and downstream expression, purification and protein analytical processes
- Engineer time extension technologies into candidate programs, and where necessary work with external companies to efficiently integrate such time extension approaches

- Assume responsibility for direct reports through recruiting, training, managing, mentoring and developing scientific staff
- Effectively manage both internal and external work, including interactions with technical and administrative staff at CROs or external vendors to deliver high quality results in a fast-paced environment
- Engage the external environment through thought leadership and visible and active engagement with key opinion leaders, professional societies, and academic
- Keep abreast of relevant literature and new approaches to protein engineering
- Demonstrates fiscal responsibility with respect to cost of experiments, technology, external collaborations, and travel

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education/Experience: The ideal candidate will:

- PhD in Biochemistry or Molecular Biology
- 10+ years Industry experience with a track record of delivering multiple biotherapeutic drug candidates for IND submission
- Experience in directed evolution of non-antibody protein scaffolds, ideally with enzymes
- Offer a record of leading a research group to meet the objectives of the discovery research organization
- Possess and exhibit advanced knowledge of drug discovery and development. Applies independent judgment and direction to design, execute and interpret experiments in the pursuit of high quality engineered protein therapeutic molecules
- Model expectations of quality, innovative science as applied to discovering new protein therapeutic medicines
- Exhibit a record of effective people leadership and talent development

Knowledge, Skills and Abilities:

- Working knowledge of application of various computational predictive methods to expedite the optimization of enzyme scaffolds
- Track record of delivering engineered protein therapeutic molecules that have successfully achieved IND success
- Experience with integration of time extension technologies into candidate programs
- Strong track record of publishing scientific work
- Ability to plan and perform experiments with minimal supervision in a manner consistent with the timeline and objectives of ongoing Research Projects
- Ability to select appropriate methods and techniques to perform experiments, and analyze data
- Ability to independently interpret experimental outcomes and recognize anomalous results
- Highly motivated, seeking scientific and personal development; keen to learn and apply new techniques and technologies
- Demonstrated understanding of biology and how protein engineering can positively impact the

target product profile of the clinical candidate molecule

- Experience in working with research biologists in their assessment and implementation of vivo models
- Ability to effectively communicate and work collaboratively in a team environment.
- Must have strong communication skills and be willing to hold both internal and external teams/vendors accountable for on time deliverables of reagents, data and reports.
- Highly motivated with excellent problem solving abilities
- Breadth and flexibility to adapt to changing project needs

Work Environment:

Aeglea is a fast paced small organization where success is driven by innovative, initiative driven and high energy individuals. The ability to be productive and successful in an intense work environment is critical. Willingness to travel domestically and internationally on occasion is required, it is anticipated that this will be less than 20% of work time.

Physical Demands: The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The above job description is not intended to be an all-inclusive list of duties and standards of the position. Incumbents will follow any other instructions, and perform any other related duties, as assigned by their supervisor.