**POSITION DESCRIPTION – RESEARCH SCIENTIST or ENGINEER, Material Science and Engineering**

Ripple Therapeutics Corporation is a clinical stage, privately held company that is focused on ophthalmic therapeutics with controllable, sustainable drug delivery. The core feature of Ripple's Epidel™ technology is the ability to engineer sustained-release pharmaceuticals with zero-order release kinetics without the use of polymers. Ripple has a full product pipeline in development. www.rippletherapeutics.com

**I. ROLE OVERVIEW:**

The Research Scientist/Engineer will apply their education and experience in material science, engineering, prototype development, manufacturing and chemistry, to develop new technologies, products, and processes for drug product development (e.g., implants), technology transfer, scale up, and production. They will support science and engineering functions from early discovery through later clinical stages, working on moderately complex projects that require initiative, planning, accountability, and judgment.

**II. RESPONSIBILITIES:**

Experimental Design and Execution:

- Design and execute experiments for material property characterization, the development of drug material manufacturing processes for sustained drug delivery implants, and in support of medical device development.
- Utilize strong laboratory and technical skills to prepare samples for testing, and develop test methods for evaluating new characterization techniques, manufacturing methods and equipment.
- Maintain a clean and safe laboratory work environment.

Data Analysis and Planning:

- Analyze data to guide next steps in experimental design.
- Develop new scientific hypotheses and conduct confirmatory experiments to explain unanticipated results.
- Evaluate prototype fixtures, processing equipment, and delivery devices to inform engineering design improvements
- Identify and evaluate material processing techniques and for implant prototyping.

Innovation and Critical Thinking:

- Contribute ideas to advance knowledge related to company technologies, products, or processes.

Documentation and Quality:

- Prepare batch records, reports, standard operating procedures (SOPs), and presentations as required, and maintain proper documentation.
- Support compliance with the company's quality management, documentation, and established procedures.

Communication and Presentation:

- Present experimental findings clearly to team members and management.
- Interact with suppliers and contract testing facilities as necessary.

- Conduct literature searches to find information to address scientific challenges and stay updated on new developments in related areas and fields.
- Support the company's core values in fostering a culture of cooperation between teams and individuals.

**III. EDUCATION AND EXPERIENCE:**

- Master's Degree + 1-3 years industry experience or Ph.D. + 0-2 years industry experience
- Expertise in Materials/Biomaterials Science or Engineering, Chemical Engineering, Biomedical Engineering, , Polymer Science, or Pharmaceutical Science
- 4-5 total years of research and experimental design experience, either in academia or industry
- Strong practical knowledge of experimental design, material processing, polymer science, biomaterials, drug delivery concepts, or pharmaceutical formulation chemistry
- Practical knowledge and experience in a breadth of analytical tools, materials testing techniques, prototyping/equipment types, and manufacturing
- Laboratory safety training and experience including safe handling of chemicals, drugs, compressed gases.
- Demonstrated experience with material processing and material testing
- Working knowledge of quality systems
- Working knowledge of literature reviews

**IV. SKILLS AND CORE COMPETENCIES:**

Accountability:

- Demonstrates a high level of ownership and commitment to achieving results.
- Works both independently and as part of a team to meet team and project needs.

Communication:

- Listens, speaks, and writes clearly and concisely.

Critical Thinking:

- Able to break down a situation and organize parts of the problem systematically.
- Identifies cause and effect relationships to solve issues.

Planning and Initiative:

- Uses an effective system to determine priorities, set goals, and create a plan.
- Takes action, measures results, and thinks ahead for future needs and opportunities.
- Able to take direction from managers and team members to help with priority setting.

Self-Development:

- Recognizes own capabilities, seeks feedback, and responds positively to improve performance.

Collaboration and Teamwork:

- Works collaboratively with cross-functional teams to achieve project objectives.
- Shares knowledge and expertise.

Problem Solving:

- Takes a systematic approach to solving problems.
- Utilizes data and resources to identify root causes and develops hypotheses to solve problems.

**V. TO APPLY:**

- Please submit resumes in confidence to careers@rippletherapeutics.com with "Research Scientist or Engineer- Materials Science and Engineering" in the subject line.
- Ripple Therapeutics welcomes and encourages applications from people with disabilities. Accommodations are available on request for candidates taking part in all aspects of the selection process.
- Compensation ranges from $55-$90k, includes benefits and equity, is competitive and commensurate with experience.
- A vacancy for this role currently exists.
- We are not currently using Artificial Intelligence to screen, assess or select applicants for this position.
- This is a great opportunity to work with engaged, committed and dedicated colleagues in an innovative and progressive environment.
- We thank you for your interest. Only those candidates selected for interviews will be contacted.