

ARC Impact Acquisition Corporation, the owner of the Desktop Metal brand and products, is pioneering a new generation of additive manufacturing technologies focused on providing unique solutions for customers. We offer a portfolio of integrated additive manufacturing solutions for engineers, designers and manufacturers of hardware, software, materials and services. At ARC, we believe additive manufacturing, commonly referred to as 3D printing, is one of the most exciting and transformational technology innovations of our time.

Polymer Engineering Manager

We are seeking a Polymer Engineer Manager to drive product development and technical innovation at our Adaptive3D facility.

This role combines strategic vision and technical expertise to advance resin portfolio, ensuring alignment between R&D, market needs, and business goals. The Polymer Engineering Manager leads cross-functional collaboration across Research, Application Development, Business Development, Marketing, and Engineering to deliver commercially viable products from concept to commercialization.

The ideal candidate will lead a team of scientists and engineers, fostering innovation, accountability, and continuous improvement while using data-driven insights to enhance performance, accelerate development, and strengthen Arc Impact's leadership in advanced materials.

This position is a full-time on-site position located at our facility in Richardson Texas.

Key Responsibilities

Strategic Leadership and Business Oversight

- Develop, lead, and execute ARC's product development strategy in alignment with the company's mission, vision, and corporate objectives.
- Collaborate with executive leadership and key stakeholders across Research, Application Development, Business Development, Product Management, Marketing, Process Development, and Engineering to ensure both technical and commercial alignment.
- Oversee the company's product portfolio to ensure development priorities support business objectives, market demands, and profitability goals.
- Monitor technical, operational, and financial performance metrics to drive continual improvement and measurable business impact.
- Provide comprehensive oversight of business operations related to product development, ensuring alignment between innovation strategy and overall company performance.

Product Development and Technical Stewardship

- Serve as the technical gatekeeper for all products and projects entering the Product Life Cycle, ensuring initiatives are feasible, strategically aligned, and capable of delivering high impact.
- Direct formulation development to meet defined performance, environmental, and cost requirements established by Product Marketing and customer applications.

- Ensure resin development meets quality and performance standards both before and after printing, including validation through post-processing.
- Lead continuous improvement initiatives to enhance product quality, accelerate time to market, and strengthen ARC's competitive position.
- Oversee the creation and implementation of test procedures, determination of optimal print settings, and development of custom equipment modifications for product validation.
- Apply data-driven decision-making and statistical analysis to optimize formulations, refine processes, and maintain consistent product performance.

Technical Development and Team Leadership

- Manage and develop a high-performing team of scientists, engineers, and technicians responsible for advancing products from concept through process handoff.
- Foster a culture of innovation, accountability, and continuous learning to cultivate the next generation of technical and industrial leaders.
- Provide mentorship and professional development opportunities to strengthen team capabilities and ensure long-term organizational success.
- Promote excellence in experimental design, data management, and analytical rigor across all technical operations.
- Encourage collaboration between product development and other business functions to ensure cohesive execution and sustained market impact.

Qualifications

- Advanced degree (M.S. or Ph.D.) in Chemistry, Materials Science, Chemical Engineering, Polymer Science, or a related field.
- Proven experience in leading technical and product development teams, preferably within the advanced materials, polymer, or additive manufacturing industries.
- Strong expertise in resin formulation, cure kinetics, and 3D printing technologies.

An Equal Opportunity Employer

At Arc Impact Acquisition Corporation, innovation is at the core of our DNA. And we believe ground-breaking discoveries are born from diverse teams with unique backgrounds and experiences. We are an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other protected characteristic under applicable law.

This role is eligible for a comprehensive benefits package including: health, dental, vision, 401(k), and more.