



NSF I-PERF Research Fellow

Full Time Position

Cypris Materials, Inc.

Alameda, CA

*Position eligibility through <https://iperf.asee.org/>

Company Overview

Color production is trapped in a dirty chemical process. Little has changed on how the industry makes colors since Dorothy put on her brilliant red ruby slippers or DaVinci painted the Sistine chapel. The Colorant industry painstakingly produces one color at a time, leading to endless recipes for production, the use of dangerous contaminants, and one-off manufacturing processes.

Color is important - It is a critical medium for humans to express, communicate, and inspire. Every industry spends countless hours choosing the aesthetic associated with its brand, logo, and products. Brands benefit from true color innovation yet are burdened with financial and environmental risk from today's colorants. A clean platform approach to how colorants are made and managed can release an innovative rainbow.

Cypris Materials decouples color production from the messy chemistry setting colors free from limitation. The company was founded in Berkeley on 11 patents to commercialize a color platform that broadens the color gamut, reduces manufacturing hassle, simplifies formulation, and doesn't pollute the environment. We accomplish this feat without pigments, dyes, metals, or expensive engineering processes. Our team has developed a paintable biomimetic color platform, called structural color, which integrates bioderived materials, to enable color the world has never seen before. Cypris Materials' technology helps industry-leading companies redefine the capabilities of color to differentiate their brand and product.

Position Profile

Cypris is looking for a motivated synthetic polymer chemist who is driven by the opportunity to make a significant impact at the ground level of a small energetic team with an innovative technology. The successful candidate will be a curious and fast learner that can work efficiently and take initiative. They will have the ability to wear many hats and adapt to changing environments, making good, independent judgement calls and work well in a team to accomplish the highest priority goals.

The person will have a direct responsibility for strengthening the company's performance and profitability by:

- Designing, optimizing, characterizing, and scaling-up both small- and macro-molecules
- Designing robust standard operating procedures
- Interfacing with manufacturers and partners
- Organizing and prioritizing workflow to meet aggressive project milestones in coordination with external partners, customers, and funding agencies
- Using cost modeling to inform synthetic routes, propose alternative chemistries and improve chemical sourcing

The individual will report directly to the CTO and ultimately own the workflow for optimizing individual synthetic polymer process steps and communicating results internally and to external partners.

Background and Experience

The ideal candidate will have a background in pilot/process chemistry and demonstrates the ability to strategically address technical challenges and provide creative solutions. Key skills and previous experience:

- Ph.D. in polymer chemistry, organic chemistry, engineering or related field
- Experience performing living polymerizations and post-polymerization modification
- Experience performing syntheses on >1 kg scale
- Excellent organization, communication, and project reporting skills
- Understanding of analytical techniques including UV-Vis-NIR spectroscopy, DSC, TGA, NMR, and GPC.
- Understanding of material property relationships

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