



## STONY CREEK COLORS

**POSITION TITLE:** RESEARCH SCIENTIST – MICROBIOLOGY/BIOCHEMISTRY/CHEMISTRY  
**REPORTS TO:** R&D AND TECHNOLOGY MANAGER  
**LOCATION:** 921 CENTRAL AVE. W, SPRINGFIELD TN 37172  
**STATUS:** NON-EXEMPT

### Company

Stony Creek Colors is the fastest growing manufacturer of natural indigo globally, serving fashion brands as well as an artisan community of dyers. We partner with leading denim mills and dyehouses to bring consistent and scalable natural colors into industrial use. Our dyes empower fashion brands like Patagonia, Wrangler and Lucky Brand with a trusted and transparent supply of biobased color. Our alternative crops like natural indigo improve profitability and ecosystem health for farmers, all while empowering designers, brands, and mills with greater transparency and traceability. Our customers are the world's leading fashion and personal care brands and their suppliers. These brands need reliable and renewable products with transparent supply chains to transition to the bio-based economy. Our next generation products enable clean color innovation in new verticals such as cosmetics and food.

### Position Summary/Job Scope

Stony Creek Colors manages all aspects of the natural indigo supply chain – from seed genetics, to crop production, to chemical extraction, to supporting industrial dyers and developing new applications. Stony Creek's research and development group leads the way in developing innovations in each of these aspects of natural indigo production and use, picking up where global research left off over 100 years ago. At Stony Creek Colors, the Research Scientist's role is to design, lead, and execute research experiments to support factory processes, field- or greenhouse-based agricultural research experiments, biobased product research and development, or scaling laboratory processes to the factory's pilot line. During the harvest season, this involves performing routine plant analyses and indigo product analyses with many roles shared across a small dedicated team. Expect to be active and hands-on in gathering and preparing samples, designing and constructing experiments, working with factory equipment, and dyeing and application development.

### Essential Job Functions/Responsibilities:

The Research Scientist will be directly responsible for designing and executing on laboratory research activities, to support factory processes, field- or greenhouse-based agricultural research experiments, and biobased product research and development.

- Perform routine laboratory plant extractions and analyses to support agricultural research activities, factory processes, and technology development
- Develop laboratory experiments as required to support and/or validate factory process operations
- Manage and direct research projects (e.g. new production methods, new IP development, product piloting, equipment/process piloting, etc.)
- Lead microbiology- and biochemistry-related research efforts
- Lead process development for analytical methods



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- Apply for grant funding to support research projects
- Maintain detailed Laboratory Notebook, documenting experiments, procedures, outcomes, exceptions and other pertinent information
- Present research findings to R&D team on a weekly basis
- Maintain assigned laboratory equipment (calibration, maintenance, cleaning, etc.)

### **Essential Attributes:**

- Able to independently design and lead research projects with clear objectives and outcomes to support company goals and processes
- Advanced understanding of microbiology laboratory and analysis equipment
- Comfortable working in a dynamic environment
- Comfortable working in cross-functional teams that may include factory process engineers, agricultural researchers, customers, and outside collaborators
- Comfortable working outside of traditional wet lab chemistry and microbiology tasks, including working with plant material, assisting in ag research experiments, etc.
- Detail-oriented; methodical in approach to troubleshooting and resolving issues
- Able to work in indoor and outdoor agricultural or processing environments (i.e. outside of the chemistry lab, in ambient outdoor conditions)
- Able to prioritize competing tasks logically
- Able to maintain a clean and safe working environment

### **Education and Experience:**

- Master's Degree in Chemistry, Biochemistry, Microbiology, or directly related field.
- Ph.D. in Chemistry, Biochemistry, Microbiology or Molecular Biology with a focus in natural products chemistry, color chemistry, food chemistry, fermentation, genetic analysis and manipulation (Preferred)
- Advanced understanding of chemistry laboratory and analysis equipment (e.g. HPLC, GC-MS, UV-Vis spectrometer, fluorometer, etc.)
- Able to track and report progress on multiple tasks, and follow each through to completion
- Experience (professional or academic research) with enzymes, yeasts, dyes, fragrances and flavors, pharma- or food-grade production facilities (Preferred)
- 4+ years applicable industry experience in a research, production or analysis environment
- Hands on experience with plants (e.g. farming, gardening, laboratory) (Preferred)

**Date Prepared:** 6/29/2020

This job description reflects management's assignment of essential functions. It does not restrict the tasks that may be assigned from time to time, nor is it considered a contract of employment overriding "at-will" employment. Stony Creek Colors is a growing company with a policy of equal opportunity and non-discrimination in employment. Stony Creek Colors is committed to providing a safe and inclusive work environment, with opportunities for growth and professional development.

**To apply:** Email cover letter + resume to [Jobs@stonycreekcolors.com](mailto:Jobs@stonycreekcolors.com) with Research Scientist in subject