Stony Creek Colors
Chemistry & Research Intern; Marketing Intern
Springfield

About
Stony Creek Color’s clean and safe plant-based dyes are disrupting the textile industry by proving natural colorants that can be used efficiently by major fashion brands. These plant and bio-based colors replace the polluting, petroleum-based dyes used today in fashion with a farmer-grown color sourced from traceable raw material supply chains - good for communities and customers!

Stony Creek Colors is a diverse team working on big solutions across agriculture, chemical engineering, logistics, manufacturing, chemistry, and fashion. Every day, the team is innovating and building partnerships with farmers, mills, and brands to achieve a big dream of making pure and vibrant, consistent and scalable bio-based dyes.

Intern roles and responsibilities

Marketing & Research Intern
Responsibilities would include market research and implementation of 1-3 projects related to Stony Creek’s marketing efforts to increase awareness and commercialization of their Tennessee-grown natural indigo and other natural colorants. The intern would be responsible for communication with stakeholders to push new product development projects forward, whether fashion brands, dye houses, or textile mills. They would be responsible for managing social media outlets and some general fulfillment of customer requests, and, where useful, early financial modeling of new products in development to guide product launch decision making. The main perk of this job is to work across diverse sectors to make significant changes happen in the fashion and textile industry! Successful interns may be considered for full-time positions.

Chemistry & Research Intern – Natural Products Chemistry
The Natural Products Chemistry Intern position focuses on laboratory extractions and analyses of natural products and plant starting materials. This position will work alongside a Research Chemist primarily in a laboratory environment, but with some amount of time performing sample collection and analysis in greenhouses and research fields. Daily responsibilities will include plant extractions, UV-Vis and fluorometric analyses of laboratory samples and plant tissue, and purity analyses of final product to support factory operations. The position will also support the Research Chemist in research and product development activities. Depending on experience level, this position may be assigned an independent research project to advance during their tenure.

Chemistry & Research Intern – Food Science
The Food Science Intern position focuses largely on research related to the use of indigo as a colorant in food and cosmetics applications. Stony Creek Colors is exploring the use of its natural indigo in food and cosmetics applications internationally, and the research gathered under this internship will help build the reference basis for petitioning regulatory agencies. Tasks
include data gathering and compilation related to historic and current use cases, toxicological studies, stability trials, cost-in-use, and related areas. This position will work with Research & Development and management personnel as well as industry consultants toward the completion of a colorant dossier for use in regulatory applications.

Chemistry & Research Intern – Process Chemist/Engineer
The Process Chemist/Engineer Intern position will support the piloting and scale up of a new factory processes and dedicated equipment in the production of natural indigo dye. This position will be based largely on the factory floor, developing and optimizing operating parameters, piloting material handling schemes, and developing quality control procedures for this new process. The position will work alongside the Process Development Chemist, Chemical Operations Manager, and Research & Development personnel. Data collection and analysis will be performed on a daily basis with weekly reports made to project leaders.

Required qualifications

Marketing & Research Intern
Ability to work independently, creative and practical thinker, able to apply lean startup methodology to testing and research.

Chemistry & Research Intern

- Recent grad, or currently enrolled in a chemistry-related undergraduate or master’s program.
- Comfortable in a cross-functional and dynamic environment
- Self-motivated and detail-oriented
- Willingness to be hands-on
- At least one semester of chemistry laboratory coursework (Natural Products Chemistry intern)
- At least one semester of coursework related to food science (Food Science intern)
- At least one semester of coursework related to process design (Process Chemist/Engineer intern)
- Comfortable in a cross-functional and dynamic environment including the factory-floor (Process Chemist/Engineer intern)

Preferred skills

Marketing & Research Intern
Interested in fashion, art, sustainability, or design.

Chemistry & Research Intern – Natural Products Chemistry

- Academic focus in Natural Products Chemistry
- Experience with UV-Vis spectrometer, fluorometer, HPLC, and other laboratory analysis equipment
- Personal interest in plants, agriculture, gardening, natural dyes, and working outdoors
Chemistry & Research Intern – Food Science

- Pursuing degree in Food Science (preferably Pre-Pharmacy)
- Familiarity with ingredient toxicology, stability, usage matrix, and similar studies
- Familiarity with food and cosmetic regulatory processes and requirements

Chemistry & Research Intern – Process Chemist/Engineer

- Pursuing degree in Chemistry, Chemical Engineering, or Industrial Engineering, or related engineering technology program
- Capable of “owning” and managing a project, including design of experiments, detailed documentation of results, communication of results to a cross-functional team, and critical development of next steps.
- Naturally comfortable building, troubleshooting, and working with one’s hands – a “maker”