



Research Scientist – Green Chemistry

Location: Bayer Crop Science Campus. 40789 Monheim am Rhein, Germany

Job Description

As a Research Scientist at our biotech startup, you will be independently responsible for leading our green R&D initiatives in the area of natural biodegradable materials, encompassing both new and existing product development.

About BIOWEG

BIOWEG is a purpose-driven startup that is developing functional and biodegradable alternatives to eliminate microplastics from our daily lives. Our innovative approach combines upcycling waste streams in a circular fermentation process, powered by Green Chemistry principles to result in highly functional and pure fermented cellulose ingredients. We are on a mission to revolutionize multiple industries, including cosmetics, personal care, nutraceuticals, agricultural coatings, and food/beverage. We are more than a company; we are a dynamic force, driving the change we want to see in the world. Join our diverse and relentless team to create a better world and a lasting, sustainable impact!

Role and Responsibilities

- Conduct research and development activities to identify and develop novel green chemistry processes utilizing cellulose as a key component.
- Design and optimize reaction pathways and experimental protocols for the conversion of cellulose into value-added products.
- Collaborate with cross-functional teams to develop sustainable and scalable processes that minimize waste and energy consumption.
- Perform analysis and characterization of cellulose-based materials using advanced techniques and instrumentation.
- Stay updated with the latest advancements in green chemistry, cellulose chemistry, and related fields to drive innovation within the company.
- Maintain accurate records in physical as well as electronic form, prepare technical reports, and present findings to internal teams and external stakeholders.

Qualifications and Experience

- Masters/PhDs in or related to Polymer/Material Science & Engineering, Chemistry, Organic Chemistry.
- Industrial experience of 1-2 years would be preferred.
- Proven expertise of using green chemistry methodologies for chemical modification of cellulosic based materials for desired application is a must.
- Solid understanding of reaction kinetics, catalysis, and sustainable chemical processes.
- Proficiency in experimental design, data analysis, and the use of analytical instruments.
- Experience in process optimization, scale-up, and technology transfer is considered an advantage.
- Strong problem-solving skills, attention to detail, and ability to work independently and in a team.
- Excellent written and verbal communication skills, with the ability to present complex scientific concepts to both technical and non-technical audiences.

Our offer

Join our team and experience an attractive mix of challenging job content in a fast-paced startup environment while contributing to a mission-driven company that is making a positive impact on the planet. Supportive culture in an international team of talented and passionate professionals who are committed to sustainability and innovation. As part of our team, you'll enjoy a competitive salary package, comprehensive health insurance, paid time off and abundant opportunities for personal growth and development.

Have we sparked your interest? Send us your **CV** (or equivalent) and **Cover Letter** in English as a single PDF to contact@bioweg.com. We look forward to hearing from you!