

Chemist Surface Specialist

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Company: Sibelco

Location: Antwerp

Category: computer-and-mathematical

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Sibelco is a global material solutions company. We mine, process and sell industrial minerals at locations worldwide, focused primarily on silica, clays, feldspathics and olivine. We are also leaders in glass recycling. The Sibelco Group operates over 110 production sites in 31 countries, with a team of over 5,000 people.

[Click to see how Sibelco materials are used in products and your home.](#)

SP Schoolhouse

Position Summary

We are seeking a highly experienced and innovative Surface Chemistry Specialist with deep expertise in surface chemistry applied in mineral processing to lead our research efforts in this critical area. The ideal candidate will have a strong background in experimental surface chemistry analytical techniques and a proven track record of applying these techniques to optimize mineral processing operations. They will be responsible for conducting advanced research, developing novel surface chemistry methodologies, and collaborating with internal teams and external partners to drive innovation and improve the efficiency and sustainability of mineral processing processes.

Responsibilities

Lead and manage research projects to optimize mineral processing through surface chemistry principles, emphasizing process efficiency, selectivity, and environmental sustainability.

Design and execute experiments to investigate the interactions between mineral surfaces

and process chemicals such as reagents, collectors, depressants, guiding the refinement of flotation processes.

Develop novel surface modification techniques to improve the flotation behavior and recovery of valuable minerals while minimizing the use of reagents usage and environmental impact.

Utilize advanced surface analysis techniques such as, but not limited to X-ray photoelectron spectroscopy (XPS), Fourier-transform infrared spectroscopy (FTIR), surface zeta potential measurements, to characterize mineral surfaces and understand their interactions with process chemicals.

Qualifications

PhD in Chemistry, Materials Science, Chemical Engineering, or a related field, or 10 years of equivalent experience in the field with a focus on surface chemistry applied in mineral processing.

Extensive hands-on experience with experimental design in surface chemistry techniques and surface analysis instruments, preferably in the context of mineral processing applications.

Proven track record of leading research projects and delivering innovative solutions in the field of surface chemistry and mineral processing.

Deep understanding of the fundamental principles governing the interaction between mineral surfaces and process chemicals, with the ability to apply this knowledge to solve complex technical challenges.

Benefits

Medical Insurance

Prescription Drug Benefits

Dental Insurance

Vision Insurance

Life Insurance

Disability Insurance

Critical Illness Insurance

401(k) Retirement Savings Plan

But most importantly, if you embrace our core values, and if this role sparks your enthusiasm to apply your passion to contribute in a meaningful way as a part of Sibelco's team of unique talents within a diverse international business community, then we very much look forward to hearing from you.

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