



Position offered:	CTO
Salary:	Competitive
Location:	Oxford, United Kingdom
Start date:	August/September 2022
Application deadline:	31 July 2022

About Us:

Seloxium Limited is a VC backed University of Oxford spinout company developing a multi-patented 'selective flocculation' technology to change the way we mine, refine and process metals to offer a greener and more sustainable source of metals.

Among the harmful contaminants contained in wastewaters are often to be found valuable and strategically important metals (e.g., gold, platinum, rare-earth metals), which are difficult and costly to remove. Hence, they are generally not effectively recovered but instead discharged and lost to the environment.

An alternative to discharging these harmful metals is using our multi-patented technology Selectal - a platform technology capable of selectively flocculating and recovering an extensive array of metals from process or waste streams which are often extremely difficult to otherwise treat.

Seloxium helps mining, refining and industrial companies to achieve their ESG goals by (1) turning their wastewater into a highly profitable and sustainable source of valuable metal resources or by (2) improving the purity and hence the value of highly concentrated metal processing or mining streams. Mining valuable metals from wastewater using Selectal not only combats freshwater pollution but also turns effluent treatment plants into 'resource factories'.

We have a strong managerial team with decades of experience in the water, mining, refining and chemical industry. We are aiming to expand our operational team to 4-5 full-time employees.

We are looking for passionate innovators who are inspired by the sustainable and circular economy agenda and are interested in building Seloxium into a green and profitable company.

For more information about Seloxium, please visit our website: www.seloxium.com

What the role entails:

Our CTO will be responsible for managing the research team and translating innovation from R&D to customer solutions. This includes running a laboratory, international site visits to work with customers and helping scale solutions from bench to full-scale, developing and synthesizing new functional and selective polymers/materials, and developing innovative ideas and bringing new products and solutions to market.

Our ideal candidate:

We are looking for a passionate and highly motivated individual who can lead the development of our technology as Chief Technology Officer. The applicant should be able to:

Business experience

	Essential/Desirable
Translate customer input into technically and economically feasible solutions	E
Communicate and extract essential and pertinent information in a professional manner in collaboration with external parties	E
Have experience with patents and IP management	D
Have market expertise or have already worked closely with a marketing director	D

Team management

	Essential/Desirable
Manage a small team of up to 5-10 research chemists	E
Train, organise and communicate with scientists and Oxford University research students and post-doctoral researchers	E
Manage conflict and resolve internal issues professionally	E

Experience and Education

	Essential/Desirable
A PhD (or good first degree) in organic chemistry, coordination chemistry or a related area prior to taking up the appointment	E
3+ years of hands-on experience of manufacturing, developing, scaling and synthesizing chemicals to pilot-scale (kg scale or larger)	E
Experience with process design and experience with scaling solutions from lab to full-scale in a chemical or process engineering environment	E
Capable of formulating and developing procedures for operations, health & safety, and synthesis	E
Experience with selective metal separation technologies (Ion exchange, membranes, solvent extraction, and electrolysis) in a manufacturing or environmental context.	D

APPLY:

Please send your CV and a 1-page cover letter to christian.peters@seloxium.com