

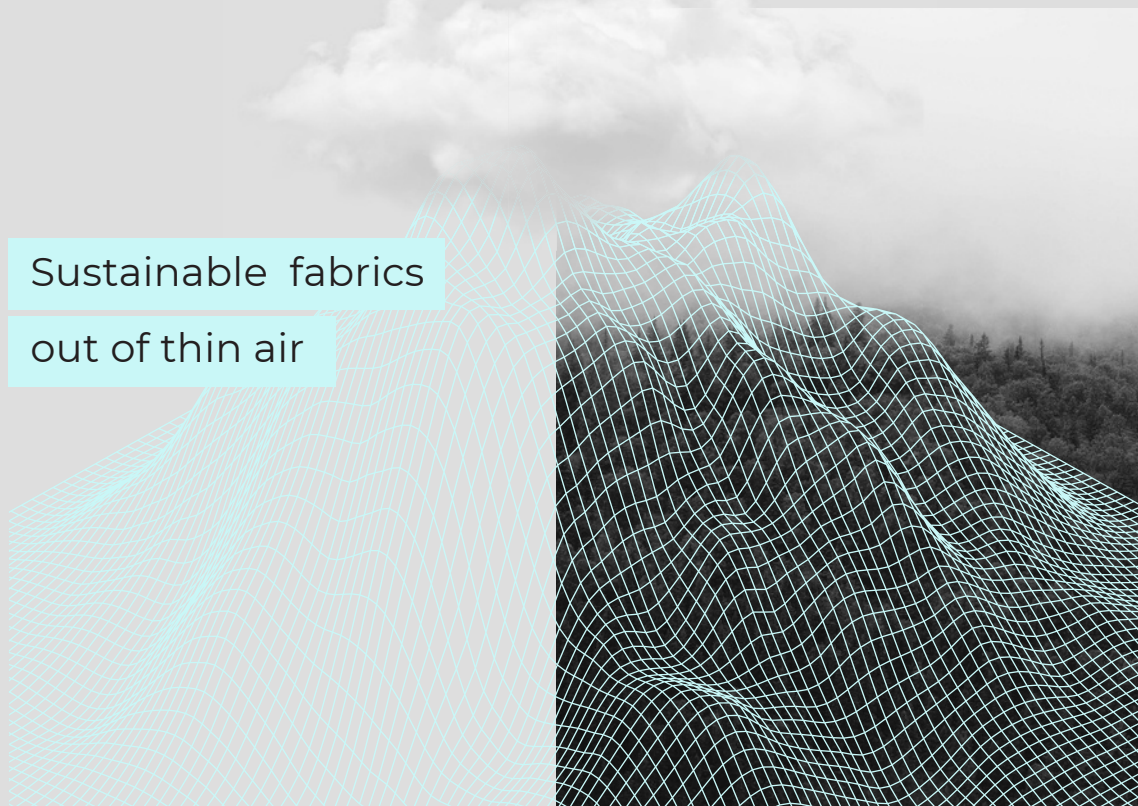


Job offer

Senior Research Development Chemist (R&D Catalysis)

Sustainable fabrics

out of thin air



 fairbrics

Are you looking for a job where ...

- the opportunities to pave your own career path and grow are endless;
- you have an opportunity to build things from scratch and have an impact;
- you can work with bright people from across the world in the same lab;
- you can simply be yourself, you are unique!

... If so, you are probably ready to hear more about Fairbrics story...

And what if it was possible to make clothes from CO2?

It is not a dream, this is what we do at Fairbrics! We are building the novel technology to efficiently transform CO2 captured at heavy industry sites into low-carbon polyester fabrics.

Are you looking for technology that helps fight climate change?

Today, polyester is produced from petroleum. Textile industry emits 1.2bln tons of GHG gases into the atmosphere yearly – this is more than all international flights and shipping combined! At Fairbrics, we are on a mission to combat climate change by developing innovative circular manufacturing process, based on the latest developments in catalytic chemistry. Our process uses CO2 as feedstock to manufacture synthetic fibers.

Are you looking for a career with ambition and growth?

Based in France Paris region, Fairbrics already generated traction amongst textile industry market leaders such as H&M and Aigle. We are also backed by top climate tech Venture Capital funds. Fairbrics is expanding its European footprint by building its first-of-a-kind flagship demonstrator facility in Antwerp, Belgium as part of the EU-funded Project.

If you are still interested in reading, an open role with our start-up may be for you! We are looking for a passionate, resourceful and rigorous Senior R&D chemist.

About the job

Your missions:

You will work closely with other R&D chemists and R&D engineers and your main tasks will include the following:

- Manufacture and optimize heterogenous catalysts for batch reactors;
- Establish catalysts structure-to-activity relationships to improve catalytic efficiency.
- Develop strategies for transferring chemical processes from lab scale to pilot taking into consideration safety and cost-related concerns.
- General understanding on scaling up catalyst's preparation requirements.
- Design a laboratory-scale experiment to test the process, analyze the resulting data and determine the optimal reaction conditions;
- Ensure safety of the process by testing the process at various scales, making sure that safety protocols are followed;

- Monitor and adjust the process as needed to ensure process consistency, reliability and economic efficiency;
- Be proactive in the design, monitoring, and analysis of the generated data.
- Prepare technical reports and ensure appropriate communication of technical results in line with established channels and processes;
- Collaborate across various functions and teams

Desired profile

An MS or PhD in Chemistry or Chemical Engineering with 3+ years of professional experience in industrial chemistry is required, as well as a strong background in rational design of catalytic materials.

Other desired expertise includes:

- Analytical and characterization techniques,
- Knowledge of batch reaction and flow reaction,
- Knowledge of catalysis, kinetics studies.

The successful candidate has the following core competencies:

- Experience in catalysis, including laboratory scale development and scale-up;
- Demonstrated knowledge in catalyst design and synthesis;
- Experience in catalytic transformation of gases (CO/CO₂/H₂);
- Able to independently design and optimize scalable and economical processes;
- Able to perform kinetic studies of heterogenous catalyzed processes;
- Able to troubleshoot and maintain lab instruments.

Additionally, the successful candidate will have the following skills:

- Strong analytical skills, problem-solver;
- Able to manage multiple projects, prioritize, and meet deadlines;

- Comfortable working in an entrepreneurial, fast-paced and rapidly changing environment;
- Autonomous, highly motivated and willing to learn;
- Strong organizational skills and attention to detail;
- Fluent in English, ability to speak French is a plus.

Location

Antwerp (Belgium)

Compensation and perks

- Competitive compensation and benefits (health insurance, public transport)
- Key role in a dynamic start-up environment