OPEN ENTREPRENEURSHIP

Apply to co-found no later than 16 November 2025
https://open-entrepreneurship.com/cofounder/

CO-FOUNDER NEEDED

We commercialize the first CO_2-powered technology for textile recycling

GLYON - CO_2-powered textile recycling

THE PROBLEM

Every year, the world generates over 100 million tons of textile waste. Yet, less than 1% is actually recycled, and the rest is incinerated or landfille with detrimental effects on the environment.

OUR SOLUTION

We solve this problem via our breakthrough chemical recycling process using CO_2 as a inexpensive, traceless catalyst to convert textile fibers back into their building blocks. The building blocks are used to produce new fibers with a significantly lower footprint than virgin materials.

PATENT STATUS

The technology was developed at the University of Copenhagen and it entered the national phase. GLYON is currently negotiating exclusive rights for textile waste applications.

FINANCIAL OVERVIEW

Short-term:
Revenue will come from pilot testing for textile brands and producers, demand already confirmed by interested customers. This phase also allows us to optimize costs and collect critical data for a demo-scale plant.

Long-term:
Our business model is based on technology licensing, enabling rapid scaling without heavy CapEx. We're tapping into a $15B+ global market, growing at 8.7% CAGR over the next five years.

MILESTONES ACHIEVED

✅ Customer validation

✅ Independent validation of the process

✅ Reached TRL 5 - Overall: 2 kg scale

✅ MVP for polyester fiber

✅ DKK 2.3M in soft funding (pre-spin-out)

✅ DKK 1.3M Innobooster grant (post-spin-out)

✅ Dansk Industri price: DKK 100.000

✅ Selected for 2 startup accelerators

TARGET MARKET & CUSTOMERS

We target the recycled polyester and cotton fiber market, estimated at >$15B. Together, these two materials represent ~75–80% of all fibers used in textiles. Our primary customers are textile brands, which hold the purchasing power and drive market demand for sustainable fibers. We provide several value propositions to our customers: 1) Cost-effective products; 2) Lower impact vs. virgin saving >30% CO2e and >90% water.

CO-FOUNDER PROFILE WE ARE LOOKING FOR

Must-have qualifications/background

- Chemical/process/mechanical engineer with experience in operating chemical/bio-chemical processes.

Nice-to-have qualifications/background

- Experience in commissioning, and operation of pilot plants
- Designing and optimizing chemical process workflows for safety and scalability
- Developing SOPs and basic process control strategies
- Preparing the system for scale-up and commercialization
- Building and leading a technical team as the company grows

Personal fit
This is a full-time co-founder role as CTO, with a clear and exciting goal ahead. I'm looking for someone who's ambitious, hands-on, and eager to build something meaningful from the ground up. If you bring a proactive mindset and a strong drive to learn and grow, we'll be a great fit.
You don't need to have all the skills yet, we'll learn and move forward together. What matters most is your energy, curiosity, and commitment to making it happen.
Area: Greater Copenhagen Area

TASKS & RESPONSIBILITIES (FIRST 3 MONTHS)

- Support the assembly and setup of the pilot plant
- Operate and manage day-to-day activities of the plant

Key Tasks

- Develop and maintain Standard Operating Procedures (SOPs)
- Optimize processes for efficiency, reliability, and scalability
- Monitor and reduce operational costs through continuous improvement

ACADEMIC & ENTREPRENEURIAL BACKGROUND OF CURRENT CO-FOUNDERS

Eugenio Gandolfo, PhD (Co-founder, CEO): 7+ years in sustainable chemistry R&D, specializing in synthesis and catalysis. 2 years R&D and business development in PET upcycling/recycling technologies. 2.5 years experience in leading GLYON from lab to start-up.

Jiwoong Lee (Scientific Advisor): professor at the University of Copenhagen with 17+ years of research in catalysis, organic synthesis, and polymer recycling. A co-inventor of GLYON's core technology, he is a pioneer in CO_2-enabled depolymerization and has deep experience translating academic innovation into industrial applications.

Martin Stenfors (Advisor): supply chain and operations expert with over 10 years of leadership experience in the textile industry. As former COO of Re:newCell, he helped scale one of the world's first textile-to-textile recycling companies. He brings deep expertise in manufacturing, logistics, and circular business models.

PHYSICAL ADDRESS
Tagensvej 16A, 2200, Copenhagen N

READ MORE HERE
research article: https://doi.org/10.1021/acssuschemeng.3c03114
Patent reference: WO2024146827A1
GLYON page: https://www.linkedin.com/company/glyon/

GLYON

ABOUT OPEN ENTREPRENEURSHIP

Open Entrepreneurship is a collaboration between all Danish universities aiming to create more research-based startups.
www.open-entrepreneurship.com

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