

Advanced Porous Materials and Coatings for Energy and Industrial Applications



THE PROBLEM

Green hydrogen must compete with fossil fuels, but electrolyzer electrodes hold it back - today's nickel foams/plates have low surface area and rely on scarce, costly nickel.

OUR SOLUTION

Our patent-protected 3D nanofiber electrodes, coated via low-cost electroless plating, cut nickel use up to 97%, boost efficiency up to 10%, and lower cost up to 75%; validated 350+ hrs, no degradation.

PATENT STATUS

FIBERNEX has developed a 3D nanofiber electrode for alkaline water electrolysis, protected by a pending patent application filed by DTU. FIBERNEX is finalizing an exclusive licensing agreement with DTU, expected to be in place before the patent's national phase entry (February 2027).

FINANCIAL OVERVIEW

We will sell advanced porous material with the main application for alkaline electrolyzer stacks at €65/m², ~€7.2k revenue per MW, ~70% gross margin at scale.

MILESTONES

- 0.9 M € raised to date.
- Incorporated July 2026; LOIs with Stiesdal, Sungrow, Evoloh, HyDEP, Hymeth; 15+ in pilot pipeline.
- Scaling to 1×1 m pilot electrode testing.

TARGET MARKET & CUSTOMERS

AWE/AEM stack manufacturers. TAM €3.2B, SAM €950M, realistic SOM €15M (2030). Additional applications (e.g. battery electrodes, CO₂ reduction, electrochemical water filtration) are being explored.

THE PROFILE WE ARE LOOKING FOR

Preferred qualifications

- Deep-tech or industrial start-up experience, ideally in hardware, materials, or energy.
- Track record commercializing technology; fundraising experience (grants and/or VC) is a plus.

Personal fit

- Comfortable with early-stage ambiguity and high ownership; motivated by the energy transition.

TASKS & RESPONSIBILITIES (FIRST 3 MONTHS)

Taking validated pilot-scale technology (TRL 4-5) to market: fundraising, building relationships with manufacturers and pilot partners, and shaping our business model.

ACADEMIC & ENTREPRENEURIAL BACKGROUND OF CURRENT CO-FOUNDERS

Andrea Russo, PhD - Founder & CEO.

Team: Alberto Laggioni, Fabrizio Lisi, Abigal Durand, + 5 scheduled hires in the pipeline

Advisors: Jens Oluf Jensen, Professor · Mikkel Rykær Kraglund, PhD · Henrik Stiesdal, Founder & CTO, Stiesdal A/S.

Mentors: Helle Monrad (Angel Investor & Board Member) · Andreas Asmussen (Supply Chain) · Steen Skjold-Jørgensen (Deep-Tech Business).

PHYSICAL ADDRESS

C/O BII, Ole Maaløes Vej 3, DK-2200 København N. Open to hybrid work; Copenhagen preferred.



ABOUT OPEN ENTREPRENEURSHIP

Open Entrepreneurship (OE) is a collaboration between all Danish universities aiming to create more research-based startups.

REGISTER YOUR INTEREST

Deadline is November 8th, 2026

www.open-entrepreneurship.com/cofounder/