

PORESENSE – *Next Generation Chemical Sensors*

THE PROBLEM

Real-time detection of chemicals is critical for process and environmental monitoring. Existing solutions rely on time-consuming sampling and laboratory analysis, making compliance costly and operationally challenging. Economic pressure and regulatory requirements urge the development of next-gen monitoring tools.

OUR SOLUTION

PoreSense will provide sensor platforms for real-time, high-precision and low-cost monitoring of chemicals. Our modular sensors employ Nobel-prize winning materials – metal-organic frameworks (MOFs) that can be tailored for the monitoring needs of end-users and capture a share of this emerging lucrative market.

PATENT STATUS

Patent (PCT/EP2025/056514) for a dissolved methane sensor has been granted and PoreSense has the first right to a licensing agreement with DTU over its use.

FINANCIAL OVERVIEW

PoreSense is currently supported through an EUDP-grant (6.3 mil DKK) until August 2027. We are actively seeking funding through industrial investments and grants.

MILESTONES

- Validated metrics for aqueous methane sensor (LOD – 100 ppb, response time under 60 seconds). Currently at TRL 5/6.
- Ongoing development through SEAL project with planned pilot testing aimed at and further validation to TRL 7 by the end of 2027.

TARGET MARKET & CUSTOMERS

Offshore operators, energy companies, water treatment facilities, environmental agencies, pharmaceutical industry, food companies.

THE PROFILE WE ARE LOOKING FOR

Preferred qualifications

- Business Developer or Product Manager with a strong industry network in at least one of the target markets.
- Experience in building and scaling a product-based business.
- Experience in raising funding.

Personal fit

- Based in the Greater Copenhagen region.
- Collaborative mindset and a team player.
- Eagerness to reach out to potential collaborators and lead business development activities.

TASKS & RESPONSIBILITIES (FIRST 3 MONTHS)

- Identify and engage potential customers, partners, and investors.
- Pursue grant funding and other investment opportunities.
- Identify potential users and collaborators for product co-development.

ACADEMIC & ENTREPRENEURIAL BACKGROUND OF CURRENT CO-FOUNDERS

- Jonas Sundberg – Associate Professor, DTU
- Jaskaran Singh Malhotra – Postdoc, DTU
- Per Reichert – R&D Scientist, Sartorius

PHYSICAL ADDRESS

DTU Lyngby campus (B375) and DTU Ballerup campus.

PoreSense



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/