Teams in the DTU Pre Scaleup Track Programme:

> **AB2O:** A DTU biotech venture converting donor blood of any type into universally compatible blood using specialised enzymes.

Industry: Healthcare / Transfusion medicine

Problem we Solve: Hospitals must stock all blood groups, and universal group O blood is under constant pressure even in high-income countries; mismatched transfusions cause around 3,500 adverse incidents a year in the UK alone.

Our Product/solution: Enzymes that remove the A and B antigens from red blood cells, turning donor blood into universal blood within 30 minutes using cell washers blood banks already own – the first technology to also target extended ABO antigens.

Contact Person: Mathias Jensen, Technical lead

> **Aquantic:** A DTU Sustain spin-out technology that destroys PFAS "forever chemicals" in water with a low-energy modular UV reactor and green chemistry.

Industry: Water treatment / Cleantech

Problem we Solve: PFAS pollution is a growing global problem. The estimated societal cost in Europe is €440B by 2050. Current destruction solutions are inefficient, centralised, and destroy PFAS at enormous cost. Incineration costs are estimated at $16 - 65M per kg of PFAS.

Our Product/solution: A patent-pending technology that uses UV light and a food-grade, biodegradable reagent to break PFAS down into fluoride, water, and CO2, achieving over 95% defluorination in one hour in the lab and targeting roughly 1,000x lower cost than incineration. The technology is safe and operates at ambient temperature and pressure, allowing for destruction of PFAS at the point of pollution.

Contact Person: Jens Ferløv, Co-founder CEO, Jens@aquantic.dk

---

> **BioNa:** A DTU ENT/Energy venture producing the world's first carbon-negative battery anode material from agricultural waste.

Industry: Energy storage / Batteries

Problem we Solve: China holds about 98% of global graphitisation capacity, Europe has no commercial hard carbon production, and today's anode materials come from petrochemical by-products emitting 10–40 kg CO2 per kg.

Our Product/solution: A proprietary process that turns biochar from agricultural waste into hard carbon for sodium-ion battery anodes, matching the bio-based market leader on capacity (278 mAh/g) and beating it on efficiency (89% ICE) while storing carbon.

Contact Person: Thomas J. Howard, Professor, DTU Entrepreneurship – thow@dtu.dk

> **CoCo Sense:** A DTU Energy venture building an all-in-one, self-calibrating sensor for electrochemical research and industrial processes.

Industry: Energy / Lab instrumentation

Problem we Solve: Developing new Power-to-X materials is slow because electrochemical experiments rely on separate sensors that drift and need manual calibration, giving unreliable data, more experiments and higher costs.

Our Product/solution: One plug-and-play, self-calibrating device that continuously measures reference potential, pH (including extreme pH from -1 to 16), temperature and conductivity – for research labs first, then industrial process monitoring such as wastewater treatment.

Contact Person: Enzo Raffaele Moretti, Postdoc, Co-founder

> **DANTE Fusion:** A DTU venture using compact fusion technology to produce medical isotopes on demand.

Industry: Healthtech / Nuclear medicine

Problem we Solve: Nuclear medicine depends on a few ageing, unreliable reactors for isotopes that decay within hours to days, making supply fragile and expensive and leaving new targeted cancer therapies short of the rare isotopes they need.

Our Product/solution: A compact fusion neutron source that produces a broad, tuneable range of medical isotopes – including rare ones such as copper-67 and scandium-47 – safely, at scale and with up to 100x higher efficiency.

Contact Person: Dr. Théo Verdier, tv@dantefusion.com

> **Fibernex:** A DTU Energy venture developing next-generation electrodes that make green hydrogen production cheaper.

Industry: Energy / Green hydrogen

Problem we Solve: 95% of the world's hydrogen comes from fossil fuels, and green hydrogen still costs $3.9–9.2/kg against $1–4.3/kg for fossil-based; today's electrolyser electrodes have a low active surface, use bulky nickel and are expensive to produce.

Our Product/solution: 3D nanofibre electrodes for alkaline electrolysers with a much larger active surface, up to 97% less nickel and a cost of about €8.8/kW versus €40/kW for benchmark electrodes – with no degradation in 350-hour tests.

Contact Person: Andrea Russo, PhD, Project lead, DTU Energy

> Green Indigo: A DTU Chemistry venture dyeing denim with light to remove toxic chemicals from textile production.

Industry: Textiles / Fashion

Problem we Solve: Synthetic indigo must be treated with sodium hydrosulfite and caustic soda before it can dye cotton. 5–25% of the hydrosulfite ends up in wastewater. One large dye line uses roughly 75–260 tonnes of hydrosulfite a year. Mills run on 3–4% margins, so a cleaner process must save money too.

Our Product/solution: LED modules fitted into the existing section of a denim dye line where the yarn is aired after dyeing. The light turns a natural precursor (indican) into indigo directly on the yarn. It is the same indigo with the same look, and glucose is the only by-product. A lab-scale LCA (Nature Communications 2024) shows 73% lower environmental impact. We estimate mills cut line operating costs by 9–17%, depending on line type.

Contact Person: Katrine Qvortrup, Professor, DTU Chemistry

> Immunicorn Bio: A DTU and CSIC drug development venture creating precision therapy for severe sepsis.

Industry: Biotech / Drug development

Problem we Solve: Severe sepsis causes more than a million deaths a year; the immune system attacks vital organs, and treatment must start before the disease is fully understood, costing $52 billion a year in US healthcare alone.

Our Product/solution: A targeted protein-degradation therapy that can benefit patients in early phases of sepsis.

Contact Person: Mads Hartvig Clausen, Professor, DTU Chemistry, Head of Chemistry

---

> KhaosGuard: A DTU spin-out developing laser-based sensing of greenhouse gases, starting with wastewater treatment, a large sector that keeps growing with population and regulation.

Industry: Climate tech / Emissions monitoring

Problem we Solve: A treatment plant is difficult to run: many factors and parameters must be kept in order at once, and operators make constant trade-offs between them. One of the important ones is nitrous oxide (N_2O), a potent greenhouse gas, and operators have little measured data on where and when it forms and how much.

Our Product/solution: We want to become the benchmark for sensing greenhouse gases, and we start with N_2O at wastewater plants. Our laser-based sensing network, built on a patent licensed exclusively from DTU, continuously maps emissions across the treatment area: where, when and how much (kg/hour). With that data, operators can make better trade-offs and run a more efficient plant, reducing emissions and lowering operating costs. First continuous field campaign at a live wastewater plant from October 2026.

Backed by Innovation Fund Denmark (Grand Solutions, InnoExplorer), DTU (Earthbound) and the BII Venture Lab, 24M DKK in total.

Contact Person: Timothy De Meûter, CEO & Co-founder, KhaosGuard ApS, timodm@khaosguard.com, +32492/72.31.35

> LumenAR: A future DTU spin-out making digital screens glare-free, even in bright offices and sunlight.

Industry: Consumer electronics / Displays / Solar cells

Problem we Solve: Glare makes screens hard to read and tiring to use in bright light; matte coatings blur the image and glossy screens act like mirrors, causing eye strain and keeping people indoors.

Our Product/solution: A nanostructured anti-reflective screen cover that cuts reflections far below today's best displays while boosting contrast and sharpness, starting as a retrofit cover for monitors and laptops in open offices.

Contact Person: Alexander H. Ohrt, Future CEO, info@lumenar.dk

---

> Nobracat: A DTU venture producing high-purity isotopically labelled chemicals at a fraction of today's cost using CO2 electrolysis.

Industry: Chemicals

Problem we Solve: Deuterated ethanol, used in pharmaceuticals, electronics and analytical chemistry, costs over €100,000 per kg because current production is expensive, small-scale and slow to deliver.

Our Product/solution: A patented one-step CO2 electrolysis process that produces deuterated ethanol and around 20 other labelled chemicals at 99–99.99% labelling and under €10 per gram, backed by a signed letter of intent for 1,000–3,000 kg a year.

Contact Person: Bjørt Óladóttir Joensen, Founder & CTO, boljo@dtu.dk

---

> Parallax Bio: A DTU biotech venture developing AI-designed precision immunotherapies for autoimmune disease, starting with coeliac disease.

Industry: Biotech / Immunotherapy

Problem we Solve: Autoimmune diseases are driven by specific harmful immune responses, yet many therapies broadly suppress the immune system. In coeliac disease, patients still rely on lifelong gluten avoidance, which does not fully prevent accidental exposure or persistent disease.

Our Product/solution: A precision biologic that recognises disease-associated gluten targets and locally suppresses the harmful immune response, aiming to control disease while preserving broader protective immunity.

Contact Person: Kristoffer Haurum Johansen, Assistant Professor, DTU Health Tech

---

> Solea: A DTU robotics startup replacing pesticides and manual weeding with an autonomous laser-weeding robot for paving, gravel and lawns.

Industry: Robotics / Landscaping

Problem we Solve: Pesticide use on paved areas has been banned in Denmark since 2022, yet many still use it illegally because manual weeding is slow and costly – a company with 400 employees needs a landscaper about 4 hours a week in season.

Our Product/solution: An autonomous robot that removes weeds with a laser, without chemicals or open flame, working on gravel, tiles and lawns and paying for itself in under a year for landscapers.

Contact Person: Nis Fisker-Bødker, PhD Applied AI and Robotics, Co-founder

---

> Still Bio: A DTU biotech venture using a naturally plant-associated yeast to protect fruit and vegetables from fungal spoilage after harvest.

Industry: Agriculture / Food tech

Problem we Solve: One third of food is lost after harvest, largely due to fungi – about 1.3 billion tonnes and $400B a year – while fungi build resistance and more than half of EU post-harvest fungicides are restricted or under review.

Our Product/solution: A naturally plant-associated yeast that suppresses spoilage fungi through nutrient competition and antifungal compounds, cutting visible decay by 95% in lab assays with no toxic residues, starting with grapes.

Contact Person: Ling Ding, CSO, lidi@dtu.dk

> Uterome Biomedical: A DTU venture developing a fast, non-invasive swab test that diagnoses endometriosis from the first symptoms.

Industry: Health / Women's health diagnostics

Problem we Solve: Endometriosis affects 10% of women and girls worldwide, yet fewer than 1 in 5 are diagnosed; diagnosis takes 7-10 years and relies on ultrasound, which misses 80% of cases, or invasive laparoscopy, costing around €4,000 per patient in Europe.

Our Product/solution: A biomarker test based on a simple vaginal swab, analysed in a standard laboratory with results one day after sampling – cutting the cost of diagnosis by around 75% in Europe and enabling earlier treatment.

Contact Person: Annemette T. Rasmussen, Future CTO

> **Vaccinologics:** A DTU spin-out project developing immunotherapy for ovarian cancer.

Industry: Life science / Oncology

Problem we Solve: 55% of ovarian cancer patients are diagnosed at a late stage, and the 5-year survival rate is below 40%; patients in the maintenance phase after surgery and chemotherapy have few treatment options.

Our Product/solution: A simple, low-cost therapeutic vaccine that activates the immune system to attack ovarian cancer cells and can be used alongside existing maintenance therapies.

Contact Person: Andreas Kisling Harris, Business Developer, DTU Chemistry, CEO of the spin-out

---

> **Vegvisir Technologies:** A DTU Health Tech venture enabling peptide drugs – such as diabetes and obesity treatments – to be taken as pills instead of injections.

Industry: Pharma / Drug delivery

Problem we Solve: We enable oral peptide delivery. Most therapeutic peptides must be injected, and today's oral solutions are product-specific and reach only about 0.8% oral bioavailability, limiting patient compliance and driving up costs.

Our Product/solution: A tunable combine carrier and permeation technology that protects peptides in the gut and helps them get absorbed, targeting around 20% oral bioavailability. Offered to pharma through partnerships with milestone payments and royalties.

Contact Person: Philip Mark Lund, Postdoc, DTU Health Tech

> **Velion:** A DTU Physics spin-out project building a table-top photonic quantum computer that uses entangled light to solve real-world computational problems.

Industry: Quantum computing

Problem we Solve: Energy, climate and finance companies hit computational bottlenecks that delay critical decisions such as grid balancing, climate forecasting and risk analysis, while today's gate-based quantum computers need extreme cooling and are hard to scale.

Our Product/solution: Measurement-based Gaussian boson sampling on a 400-mode fibre platform that runs near cryo-free on telecom components, offered as integration-as-a-service (API or cloud accelerator) for solving hard integrals on demand.

Contact Person: Ulrik Lund Andersen, Professor, DTU

> SayCheese: A DTU Food spin-out project developing and validating new culture solutions for sustainable cheese production.

Industry: Dairy industry

Problem we Solve: Cheese production is a time-consuming and costly process that can take from months to several years. The high cost of cheese ripening is due to both inventory costs; costs associated with running the cheese facility and handling costs.

Our Product/solution: Novel culture solutions that can speed up cheese ripening; we have demonstrated on a full industrial scale that we can mature cheeses twice as fast as conventional cultures.

Contact Person: Christian Solem, Associate Professor, DTU

> Redoxa: DTU-based water-tech venture born from research across DTU Sustain and DTU Aqua. Redoxa applies an established bioelectrochemical approach in a new way and environment, adding control and monitoring capabilities that turn it into a scalable solution for aquatic restoration.

Industry: Water technology / Aquatic restoration

Problem we Solve: Many ports, lakes and coastal waters remain degraded even after new pollution inputs are reduced. Stored nutrients and organic matter can continue driving poor water quality and oxygen depletion, creating a self-reinforcing cycle that slows ecosystem recovery and limits the success of restoration efforts.

Our Product/solution: Redoxa provides a modular sediment-restoration system combining conductive grids, automated control, and continuous monitoring. Installed at the seabed, it improves sediment conditions at the source, reduces internal nutrient release, and gives customers measurable data to track and demonstrate environmental improvement. The system scales from targeted sites to larger restoration projects.

Contact Person: Claudia Moxo Francis, Co-founder & CEO – cmofr@dtu.dk