

Operator Technician

Who we are

The world still needs hydrocarbons — but given the climate crisis, we cannot rely on fossil fuels. The answer lies in carbon dioxide utilisation: carbon-to-value, power-to-X.

OXCCU TECH LTD, a climate-tech spin-out from the University of Oxford, is on a mission to develop novel catalysts and reactor designs to convert carbon dioxide and hydrogen into hydrocarbons. These technologies will help meet growing demand for sustainable aviation fuel (SAF) under global regulations, as well as petrochemical products such as surfactants, synthetic lubricants, and plastics.

Following successful funding rounds with leading US and UK venture funds, oil majors, traders, and end users, OXCCU is scaling up rapidly. We are expanding our facilities, increasing our UK-based team, and deploying a demonstration plant at Oxford Airport.

Our culture

We are passionate about making an impact in the fight against climate change by developing technologies to reduce gigatons of CO₂ emissions by 2050. We believe in hard work, innovation, and big thinking — balanced with humility, teamwork, kindness, and mutual respect. Diversity and inclusion are core to our success, and safety is paramount in everything we do.

Position description.

We are looking for a skilled Operator Technician to support the daily operations of a Power-to-Liquid (PtL) plant for SAF production. You will monitor and optimise plant processes, conduct maintenance, and ensure safety is practised throughout the test facilities.

Key Responsibilities and Accountabilities.

Plant Operations and Maintenance.

- Operate and monitor equipment for the conversion of CO₂ and H₂ to OXFUEL
- Adjust operational parameters to maintain output quality and meet production targets.
- Assist with plant start-up, shutdown, and emergency protocols.
- Oversee site inspections and audits, ensuring compliance with safety and environmental standards.
- Perform regular maintenance on plant equipment, such as reactors, compressors, instrumentation and supply equipment.
- Troubleshoot issues and collaborate with the engineering team on repairs.

- Maintain an inventory of consumables and critical spare parts; tracking and replenishing as needed.

Process Optimisation and Compliance.

- Collect and analyse data and samples to evaluate SAF yield and quality.
- Recommend and implement plant improvement strategies.
- Build a testing regime, with cross-company input.
- Adhere to health, safety, and environmental regulations.
- Participate in safety drills, HAZOP reviews, and emergency response planning.
- Maintain a clean, hazard-free workspace.
- Train new hires and cross-train other team members.
- Record detailed logs of operational data and observations for each shift.
- Compile reports on performance and provide feedback on potential improvements.

Qualifications and experience..

To be successful, ideally you will have:

- HNC/HND or equivalent qualification in Chemical Engineering, Mechanical Engineering, Process Technology, or a related field. Relevant vocational qualifications are considered.
- Experience in a chemical or industrial plant and operating equipment such as reactors, compressors, and heat exchangers.
- Ability to interpret technical documents, including process flow diagrams and SOPs.
- Proficiency in Word, Excel, and data collection for analysis.
- Strong troubleshooting skills, with the ability to identify and resolve issues quickly.
- Team-oriented with excellent communication skills.
- Commitment to safety and sustainability practices.

Desirable Attributes.

- Experience with control systems.
- Previous experience with SAF processes, including isomerisation, hydrogenation or distillation is beneficial.
- Passionate about sustainable energy and low-carbon technologies.
- Humble, able to take and give direction and feedback and to work cohesively within a diverse, fast-paced, innovative team and deal with uncertainty.

Closing Statement.

Consistent with our commitment to diversity & inclusion, we value people with the ability to work in diverse teams and with a diverse range of people. We especially encourage members of traditionally underrepresented communities to apply.

We know the right candidate might not check every box in this job description. You could also have important skills we haven't thought of. If you think you're a great candidate for this role, apply and tell us why.

To apply, send us a CV and a few sentences about why you are interested in this position and what you bring to the table. We're looking forward to hearing from you.

Apply Today!

Please send your CV and cover letter to info@oxccu.com.