



Job Title	Head of Engineering
Location	We're operating a <b>hybrid work model</b> where the role permits. Our labs are in West London, but we offer the flexibility of <b>Home Office (80%) / West London (20%)</b>
Type	Full time
Salary	<b>Salary plus Equity</b>  We want our team to be invested in the business, rewarded through the creation of value. For this reason, we have a shareplan.
Holiday	25 days + public holidays

## About Supercritical:

Supercritical is developing the world's first high pressure, ultra-efficient water electrolyser for green hydrogen production. The system will be capable of overcoming many of the limitations experienced by today's incumbent electrolysis technologies. By harnessing the benefits of heat and pressure, Supercritical's proprietary design enables us to operate in the region of the highest electrical efficiencies seen commercially today, whilst delivering hydrogen at high pressure which is perfect for storage. The resultant green hydrogen and oxygen products that we produce can be used to decarbonise heavy industry, chemicals, transport and more. We have recently closed a £2.6million funding round and have announced two incredible projects - [WhiskHy](#) and [GreenNH<sub>3</sub>](#).

Globally 'Top 50 to watch for climate action' - CleanTech Group  
Top5 Zero Emission Solution to watch in 2022 (StartUS Insights)  
Runner-up and People's Choice in 'Shell's 2021 New Energy Challenge'  
Finalist 'Hydrogen Hypothesis' - OZ Minerals

## The opportunity:

Supercritical is looking for a well-rounded and experienced Head of Engineering to join our development team. You will lead a multidisciplinary team of engineers in the commercialisation of Supercritical's next generation water electrolysis system. You will accelerate development by isolating the critical problems and solving them through your experience in running highly technical engineering projects, the structured and targeted management of existing team skills and knowledge, and planning and partnering with the best external parties to accelerate us to commercialisation.

Founded in 2020, Supercritical has built its proof of concept, secured private and public funding and is building its first multi-cell module. You will join an exciting and fast moving company that is intent on disrupting the energy industry and enabling a net zero future. An electrolyser is a complex electrochemical system which can sit in any number of value chains. Supercritical's key sectors include



chemicals, energy, heavy industry and transport, and we need a Head of Engineering that will take a leading, strategic role in the development of the technology!

We're really excited about expanding and diversifying our team. Coming from a diverse background ourselves, we do not discriminate regardless of disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race (including ethnic or national origins, colour and nationality), religion or belief (including lack of belief), sex, sexual orientation or any other characteristic. We can't wait to have you on board!

## Accountabilities:

- Being accountable for the execution and delivery of engineering deliverables including the engineering execution plan, schedule and budget and managing risk be it technical, resources, supply chain or procurement.
- Providing leadership and direction to the business, using your experience to build the internal team and leading on contracts management with subcontractors and being accountable for the working relationships.
- Leading a multidisciplinary team of engineers in the advancement of Supercritical's electrolyser system from lab scale through to commercial demonstration, whilst stepping up to support in engineering where required.
- Being responsible for development of bases of design, statement of requirements for projects / test capabilities and management of change.
- Ensuring work is coordinated and communicated with the wider team.
- Working closely with the programme and project manager(s) in maintaining good dialogue with external stakeholders and internal management.
- Responsible for managing external contractors working on the projects (in relation to engineering), ensuring contracts deliver business goals and value for money for Supercritical
- Lead in definition of engineering standards as the business grows.

## About you

### You will

- Be passionate about a netzero, excited by innovation and proactive in your pursuit of it.
- Demonstrate extreme ownership, having acute awareness about yourself and your team, taking true accountability for the delivery of the tasks at hand.
- Evidence risk management capability and be dynamic and comfortable working in an environment full of uncertainty, using your ingenuity and natural problem solving skills to drive out this uncertainty systematically.
- Be experienced in managing a multidisciplinary team of engineers (process, mechanical, electrical, control and instrumentation) through complex and time sensitive technology development projects within the energy or chemical sectors.
- Have demonstrable experience in engineering studies at conceptual, FEED and EPC stages covering end to end design activities in support of major project execution.
- Have experience in scaling up technology from lab scale to pilot scale to commercial scale.
- Be chartered and have an MEng level degree in chemical, process, mechanical or electrical engineering and be able to oversee and support all of these disciplines
- Drive safety and good engineering practice through application of experience and use of standards and directives for example ATEX, DSEAR, UKCA, Pressure Equipment Safety Regulations.

Direct applicants only - no agencies.

Supercritical is not in a position to sponsor overseas applications.



- Embrace an agile approach to technology development and project management
- Have fantastic interpersonal skills.
- Be innovative, adaptive, able to execute and a teamplayer.
- Be excellent at distilling technical data, deriving conclusions and providing direction
- Have outstanding communication skills, both written and speaking.
- Be proactive and self-motivated, taking initiative to drive towards company goals through continuous improvement.

#### Desirable

- Experience in electrochemical system development: electrolysis or fuel cells.
- Design experience in hydrogen and oxygen.
- Design experience in supercritical water.
- Experience of working with high pressure / high temperature systems