



Job Title	R&D Test Engineer
Location	West London, UK
Type	Full time
Salary	Up to £35,000 / annum Experience dependent
Equity	We want our team to be invested in the business, rewarded through the creation of value. For this reason all new full time employees will be invited to join our share scheme .
Holiday	25 days

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.

Globally 'Top 50 to watch for climate action' - CleanTech Group
Runner-up and People's Choice in 'Shell's 2021 New Energy Challenge' - Shell
Finalist 'Hydrogen Hypothesis' - OZ Minerals

The opportunity:

Supercritical is looking for an experienced and dynamic Test Engineer to join our dedicated R&D team. Founded in 2020, Supercritical has built its proof of concept, secured private and public funding and is moving forward to build its first 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 Test/Systems Engineer that will accelerate and strengthen our technical team in its test facilities and pilot plant design.



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:

- Designing, specifying, procuring, building and commissioning test-rigs for the supercritical electrolyser.
- Introducing integrated data acquisition of the test-rig (eg. pressure, temperature, power input, product purity).
- Introducing automated safety systems and shutdown features to enable unsupervised testing.
- Enabling electrolyte recirculation and replenishment.
- Running experimental protocols.
- Identifying improvements and optimisations that can be introduced in the test-stand.

About you

Essential

- Have a degree in a science or engineering discipline.
- > 2 years of industrial experience.
- Experience in Labview or programming (C/Python).
- Be able to work with vendors to spec hardware and software.
- Have experience in automation and safety systems.
- Able to design and build test stands.
- Familiarity with risk assessments/GLP.

Desirable

- Experience with high pressure or high temperature gas and fluid systems.
- Use of swagelok components.
- Basic understanding of electrochemistry.

Direct applicants only - no agencies. Supercritical are not currently in a position to sponsor overseas applications.