



Job Title	Manufacturing Engineer (Internship)
Location	Supercritical HQ, West London, UK Opportunity to work from the office 5 days a week for maximum exposure. Minimum 3 days per week in the office.
Type	Internship - 6, 9 or 12 months
Salary	£28,808 per annum pro rata (£554 per 40 hour week) - the London Living Wage Your employment structure will be as a contractor to Supercritical - i.e. You will invoice for the days that you work , and you will manage tax yourself. We can help explain this structure if it is new to you. You will not be on a PAYE employment contract. You will be able to take 25 days (+ bank holidays) per annum pro rata as unpaid leave.
<p>We are committed to finding the best candidates, so if you're excited by the prospect of joining Supercritical then we encourage you to apply, even if you don't meet all of the requirements. Your unique skills and experiences may be exactly what we're looking for.</p> <p>Whether you're motivated by technical challenges, opportunities for growth, or being part of a mission-driven organisation, you'll find a welcoming environment at Supercritical. We value trust and transparency.</p> <p>Supercritical is proud to foster an inclusive environment. We believe diversity drives innovation and we ensure that every team member feels welcomed, valued, and empowered to succeed. We encourage applicants of all genders, ethnicities, backgrounds, and abilities to apply and help shape the future of clean energy.</p>	
Other Benefits	An exciting and dynamic start-up environment Flexibility and Supportive of Balance - Flexible start and finish times - Flexible work days to align with class schedules Growth Opportunities - wide range of exposure and development Monthly Team Days & Lunch Outings Team Milestone Celebrations
Learn more about us at the end of this document or at www.supercritical.solutions .	



The Opportunity:

Supercritical is seeking a highly motivated, analytical, and proactive Intern to join our dynamic team and play a key role in shaping the future of green hydrogen. Joining the Operations team, you'll be immersed in the fast-paced world of a startup intent on disrupting the energy industry and enabling a net-zero future. You'll have the opportunity to dive into diverse and challenging projects, gaining invaluable experience across various engineering functions, from product design and development to testing and quality assurance.

Just as our engineers pioneer innovative solutions to complex technical challenges, you will be encouraged to bring your curiosity and fresh perspective to help turn our designs into high-quality, manufacturable products. You will contribute directly to building and improving our manufacturing capabilities, supporting activities ranging from defining requirements with suppliers and managing production schedules to solving technical issues and ensuring our prototypes meet rigorous standards. You'll learn to ask, "How can we build this better, faster, or more reliably?"

This internship will provide you with hands-on experience in a rapidly growing company, working alongside co-founders, experienced engineers, and production specialists. In the close-knit community that only a start-up can offer, you'll develop a broad skillset, hone your engineering and manufacturing acumen, and build an empowering understanding of how world-class manufacturing is key to the success of a cutting-edge technology company.

All applicants must submit a cover letter with their CV. Included in this cover letter you must state your preferred length of internship, 6, 9 or 12 months.

What you'll do:

- Work closely with our mechanical engineers and testing teams to understand design requirements and translate these into clear specifications for suppliers.
- Obtain and compare quotes, assess proposals, and support supplier selection for critical components and assemblies.
- Manage the production and supply of new designs and prototypes, ensuring timelines and quality expectations are met so we can keep testing and iterating.
- Creatively address issues raised during design reviews, production runs, testing, or logistics, working with multiple stakeholders to find practical solutions.
- Assess the performance of manufactured components and assemblies, identifying opportunities for improvement in design or production processes.
- Play a central role in progressing and refining our designs so we can bring our product to market faster and more efficiently.
- Help maintain accurate records of builds, parts, and supplier information to support future production scaling.
- Support the preparation of materials for design and production reviews with internal and external stakeholders.
- Assist in improving internal processes and systems in the workshop and supply chain, such as organising inventory, developing build procedures, or testing the feasibility of new production techniques.
- Roll up your sleeves and get hands-on with assembly, testing, and troubleshooting. In start-ups we wear many hats, and you'll gain exposure to a wide range of activities beyond

Direct applicants only - no agencies.

Supercritical are not currently in a position to sponsor overseas applications.



your core tasks.

What you'll get:

- Take ownership and accountability for tasks and projects you wouldn't get at a large corporate.
- Gain a deep understanding of how innovative products move from design to reality, learning about all the moving parts including design iterations, supply chain management, quality control, testing, and manufacturing strategy.
- Learn about the technical and scientific aspects of our hydrogen electrolysis technology and how they impact manufacturability.
- Receive consistent feedback on performance and the opportunity to ask questions and learn directly from experienced founders and team members.

About you

Ideally, you will:

- Be pursuing a career in mechanical engineering, manufacturing, or production engineering.
- Have a degree or be pursuing a degree in mechanical engineering, manufacturing engineering, industrial engineering, or a related field.
- Be inherently curious and demonstrate a keen interest in how things are made and how processes can be improved.
- Be a self-starter who proactively identifies problems on the shop floor or in production processes and works to solve them.
- Be willing and capable of thinking creatively, and confident in contributing practical ideas in a wider team setting.
- Have strong analytical and problem-solving skills, especially in engineering and technical contexts.
- Possess excellent written and verbal communication skills for documenting processes and working with suppliers.
- Be highly organised and able to manage multiple tasks and deadlines simultaneously.
- Be eager to learn about the green hydrogen industry and the technical requirements of manufacturing deep-tech products.
- Be comfortable getting hands-on with tools, prototypes, and test rigs in a workshop or lab environment.
- Be able to work both independently and within a team.

Desirable:

- Knowledge of manufacturing processes, supply chain management, or production planning.
- Experience with CAD, technical drawings, or mechanical assembly.
- Familiarity with quality control, lean manufacturing principles, or design for manufacturing.
- Past demonstrable experience in a workshop, lab, or manufacturing environment.

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About Supercritical

Supercritical is transforming the future of green hydrogen production with the world's first high-pressure, ultra-efficient water electrolyser. Our groundbreaking technology uses heat and pressure to achieve the highest electrical efficiencies in the industry, producing hydrogen at high pressure for seamless storage and transport. By also co-producing oxygen, our innovations support decarbonisation in heavy industry, chemicals, transport, and more.

We are a well-funded team with years of runway and strong partnerships with leading global organisations. Our mission is to make green hydrogen affordable and sustainable, enabling a cleaner, more equitable future. By eliminating the costly and complex equipment required by traditional electrolysis, we are driving down the cost of green hydrogen and making it accessible to industries around the world.

We live by our values at Supercritical:

- **Purpose** in creating a legacy, driving positive change, for sustainability in all we strive for
- **Transparency** in the way we work, the way we share, in our honesty
- **Partnership** to achieve shared goals, to collaborate at all levels, to welcome challenges and different points of view
- **Trust** in our colleagues, in the rigour of our delivery, in respect for others
- **Leadership** in finding breakthroughs, empowering actions, innovating
- **Curiosity** in celebrating ideas, championing our passions, being positively restless

What Makes Us Proud:

- Our patented technology is redefining industry standards.
- We've demonstrated world-leading electrochemical efficiencies out of the lab.
- We are committed to sustainability, designing systems free from PFAS forever chemicals and rare earth metals.
- We're recognised globally:
 - Featured in CleanTech Group's "Top 50 to Watch for Climate Action."
 - Named a StartUS Insights "Top 5 Zero Emission Solution to Watch."
 - Runner-up and People's Choice in Shell's 2021 New Energy Challenge.
 - Finalist in OZ Minerals' Hydrogen Hypothesis.
 - Highlighted in CEMEX Ventures' Most Promising CleanTech Solutions.
 - Listed among Start Up Energy Transition's "100 Most Promising Global Energy Startups."
 - Named "ClimateHack's top 150 ClimateTechs to watch"

At Supercritical, we believe that innovation thrives when diverse perspectives come together. We're building a collaborative, inclusive team to create ultra-efficient, cutting-edge solutions for a sustainable future. Join us in solving some of the world's toughest energy challenges and making a real impact on the path to net zero.

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What it's like to work here:

At Supercritical, we're not just building cutting-edge technology—we're shaping the future of clean energy. Working here means being part of a fast-moving, deeply collaborative team that thrives on innovation, curiosity, and impact. We operate with trust and transparency, valuing diverse perspectives that drive better solutions. Our culture is dynamic and ambitious, but also supportive—everyone has a voice, and great ideas come from everywhere. Expect to work alongside passionate experts who challenge the status quo, celebrate wins together, and push boundaries to make green hydrogen affordable and accessible. Whether it's solving complex engineering problems, securing partnerships, or scaling our breakthrough technology, every role at Supercritical is mission-driven. If you're looking for a place where your work genuinely matters, where you can grow, and where you'll be empowered to take ownership, you'll feel at home here.

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