

Senior Mechanical Engineer



Job Description

Location: 630 Wharfedale Road, Winnersh Triangle, Wokingham, RG41 5TP

About tepeo

We are a rapidly growing ClimateTech business on a mission to disrupt the heating industry with a revolutionary low-carbon heating technology. Decarbonisation of domestic heating is the single biggest challenge facing the UK's goal to reach Net Zero. Heating represents over 17% of all carbon emissions in the UK.

Our product is a smart heat battery - we call it a ZEB. It's a plug 'n' play replacement for a gas or oil boiler, is easy to install and massively reduces the carbon emissions from heating. It uses electricity to 'charge' ultra-high density thermal storage when energy prices and the carbon intensity of the grid are low. Our IoT technology and cloud-based algorithms automatically optimise the ZEB to minimise cost & carbon.

We've been recognised as one of the fastest growing and most exciting ClimateTech scale-ups in the UK. We are a team of over 50 people and recently won the [Ashden Award](#) for Innovation. There's more on our website at tepeo.com.

About the role

At tepeo, we are committed to creating a diverse and inclusive workplace where everyone feels welcome and valued. Diversity in our teams enables them to represent a variety of perspectives and experiences, making them more effective.

We are hiring for a talented, experienced and motivated Senior Mechanical Engineer. Due to recent innovation funding we have the opportunity to expand our R&D team. The role will include working on new product introductions, ground up re-designs as well as supporting the existing product. As a startup we can move quickly so candidates must be adaptable to change, balancing the need for diligence and pace, to manage designs through the full lifecycle of concept, detailed design, testing, product introduction and end of life disposal.

The successful candidate will work closely with cross-functional teams, including product, electronics, software, production and service engineers. Experience working at startups and a broad range of engineering experience is desirable.

We want people who are passionate about tackling climate change. We firmly believe in the existential threat that climate change poses to us all. This is why we're changing the way we heat our homes.

Role details

- **Full-time employee** to start at the earliest available date
- We are ideally looking for someone with 8+ years experience in Mechanical Engineering but *candidates with less experience and strong skill sets in computational fluid dynamics, thermal calculations, sheet metal design would be considered*
- You will be working primarily on a ground up redesign of our product to enable it to fit under a counter this includes taking it from concept, optimisation through to production
- Work includes: CAD with an emphasis on technical analysis (CFD, python and some FEA), component selection/design and integration, compact packaging of components, prototyping, setting up tests and designing jigs to validate simulation
- Product Lifecycle: Incorporating sustainable lifecycle and design concepts into the product, support with compliance to product and environmental standards
- Productionisation: You will also provide engineering support for production activities to ensure efficiency, quality, safety and consistency of product build

About you

Essential

- Ability to understand complex technical requirements and drive development of both new products and productionisation projects
- Sheet metal design for medium production volumes including design for panel benders, stamped components, assembly and jiggling for sheet metal assemblies
- DFM methodologies; FEA analysis
- Good knowledge of CAD and PDM
- Hands on experience with prototyping, 3D printers, CNCs, assembly and disassembly of prototypes
- A positive, proactive team player who is keen to make a difference and enjoys working in a goal-driven environment
- Experience of writing test methodologies, setting up experimental functional tests, analysing data output and producing clear test reports
- Degree qualified in an Engineering discipline (Bachelors 2:1 or higher)
- Keen interest in the future of the energy sector and Net Zero

Preferable

- 8+ years experience within a similar mechanical engineering role
- Inventor FEA and Star CCM for CFD. Experience setting up pressure drop models through complex channels and conjugate heat transfers models
- Strong thermodynamic analytical skills relating to heat transfer and fluid dynamics
- High temperature component design
- Design for white good consumer appliances
- Python for data analysis and interpretation of data
- Experience with mold design preferably in the concrete/refractory industry
- Experience designing components for optimised production line yield and quality
- Experience of electronics development
- Experience working at startups
- Working to UKCA/CE and EN60335 compliance standards; liaising with test houses

Salary

£50 - £60k per year, depending on experience

25 days holiday plus 8 bank holidays and 1 'birthday' holiday

Life insurance

Private Medical Insurance

Optical and Dental Insurance

Income Protection

Employee Assistance Programme

Holiday Purchase Options

Discounted ZEB for your home

Volunteering day

Collaborative, flexible, and friendly environment

Be part of a growing technology startup and help shape the future of energy

Getting in touch

If this sounds like it might be the job for you then drop us a line at careers@tepeo.com

Please include a copy of your CV and any supporting information you think we should have.

We are considering applications on a rolling basis so do get in touch ASAP.