

**Position:** Mechanical Project Engineer

**Location:** London - Hackney / Crawley

### THE COMPANY

Founded in 2014 in London, Entropea Labs is an innovative sustainable energy and technology start-up, which focuses on the development and optimisation of high efficiency and scalable heat to power systems. Entropea Labs technology can convert unused and wasted heat into renewable electricity from a number of heat sources including: Solar heat, biomass, industrial waste heat and Combustion Engines. Entropea Labs aims to be a leader in waste heat to energy for various commercial applications.

For more information visit: [www.entropea.com](http://www.entropea.com)

### THE OPPORTUNITY

Entropea Labs is seeking an experienced and highly motivated Mechanical Project Engineer to help the company deliver the existing projects and launch its technology into the market.

#### Duties & Responsibilities

- Execute and improve existing mechanical designs of heat to power systems
- Produce mechanical designs for new systems (3D CAD in Solidworks/AutoCAD)
- Create manufacturing and assembly drawings
- Plan and manage mechanical assembly
- Using existing MATLAB codes for cycle modelling and develop new ones
- Plan system tests, help the research team collect data
- Take part in project meetings with academic and industrial partners
- Produce technical documentation, compliance and progress reports
- Liaise with suppliers; Execute purchasing and coordinate delivery
- Take part in the commissioning of heat to power systems
- Visit clients' sites, perform feasibility studies, produce integration strategies
- Select and purchase components and systems for manufacturing and building of heat to power systems

### SKILLS AND EXPERIENCE

#### Essential:

- 2+ years of experience (mechanical design/project engineering)
- Proficient in CAD packages (Solidworks/AutoCAD)
- Experience with heat exchanger selection
- Experience with thermodynamics/fluid mechanics
- Proficient in rotordynamic analysis
- Understanding of hydraulic design for high pressure and temperature systems

- Experience with high pressure pump selection process
- Able to carry out jobs independently and identify potentially more effective methods
- Proficient in MATLAB
- Project management skills
- Problem solving skills
- Excellent oral and written communication skills (English)

**Desirable:**

- Hands-on Experience with assembly of complex mechanical and hydraulic systems
- Msc/MRes/PhD in Mechanical Engineering/Thermodynamics/Fluid Mechanics
- Experience with high speed rotating machines (bearings/lubrication)
- Proficient in CFD software (Ansys FLUENT)
- Experience with Organic Rankine Cycle
- Experience with Waste Heat Recovery Systems

**Reporting to:**

Managing Director, Engineering Manager

**Employment status**

The successful candidate will become a full-time employee of Entropea.

**Only candidates with right to work in the UK will be considered. Sponsorship not offered.**

**Preferred Start Date**

October 1<sup>st</sup> 2018