

---

## **Job Description**

**Job Vacancy :** Magnet Engineer

**Date:** 05/09/2022

**Location:** Boston, Massachusetts

**Salary:** Highly Competitive Plus Benefits

**Hours:** Full Time

**Contract Type:** Permanent

**Reporting to:** Chief Technology Officer and VP of Magnet Program

---

### **About Type One Energy**

Fusion energy is the clean power at the center of stars. Mastered here on earth, its unique advantages will rapidly disrupt carbon-based fuels to become the primary form of baseload power on the planet.

**Type One Energy** is a fusion energy startup applying innovations in additive manufacturing, quasi-symmetry, and HTS magnets to commercialize an economical stellarator power plant. The stellarator is an innovative marriage of elegant physics, engineering artistry, and practical utility.

Founded by experts and technology from the University of Wisconsin, Type One Energy is a world leader in stellarator R&D with the mission to provide clean and affordable fusion power to every city across the globe.

In collaboration with our public and private partners, we are uniting the outstanding operation of a stellarator with breakthroughs in theory, additive manufacturing, and high temperature superconducting magnets. We are producing an economical fusion power plant to be deployed worldwide in the shortest amount of time.

---

### **About the role**

We are seeking highly motivated Magnet Engineers to join our team in Boston, to help build HTS magnets from scratch. The ideal candidate will have experience in designing and building high temperature superconducting magnets, or experience in a similar field. The Magnet Engineer will be responsible for designing, testing, and building magnets for use in our stellarator technology.

We are looking for highly motivated Magnet Engineers with experience in in copper magnets, superconducting magnets, cryogenics, vacuum systems or transformer design.

---

---

## **Responsibilities**

- Working with other Magnet, Mechanical and Electrical Engineers to design, test and build HTS magnets from scratch.
- Develop specifications and requirements for the magnets based on the system design and performance goals.
- Create designs using engineering software packages to optimize the magnet performance.
- Collaborate with the magnet manufacturing team to build magnets from scratch, including winding and assembly.
- Participate in magnet testing and data analysis to ensure magnets meet performance specifications.
- Develop and maintain documentation related to the design, fabrication, testing, and performance of the magnets.
- Work closely with other members of the engineering team to integrate the magnets into the overall stellarator design.
- Stay current with the latest developments in magnet technology and their applications in the fusion sector.

---

## **Required Qualifications and Experience**

- A Bachelor's or Master's degree in Mechanical, Electrical or Materials Engineering or similar field.
- Proven experience in designing and building magnets or HTS magnets.
- Experience with key engineering software packages including Solidworks /ANSYS
- Proficiency in magnet winding, assembly, and testing is desirable.
- Knowledge of cryogenic systems and superconductivity is desirable
- Strong analytical and problem-solving skills.
- Ability to work independently and in a team environment.
- Excellent communication and interpersonal skills.

---

## **To Apply**

Please send your CV and cover letter to Sam Belazka at [sam.belazka@typeoneenergy.com](mailto:sam.belazka@typeoneenergy.com) and for more information please visit our website at [www.typeoneenergy.com](http://www.typeoneenergy.com).