Mechanical Technician
Job ref 38

Vacancy Specification

As a technician in First Light Fusion the successful candidate will be building state of the art technology. The opportunity is for a Mechanical Technician who will be responsible for manufacturing parts required to develop our experimental campaign and ultimately achieve fusion.

Projects will range from developing pulsed power machines to achieve electro-magnetic launch of projectiles exceeding 20km/s, to complex target design and development. All will require novel approaches in design, construction and use of materials.

Further responsibilities will include:

- Production of components that meet the required specifications in the agreed timelines.
- Safe operation of machine tools and equipment.
- Programming the machine tools with data taken from technical drawings.
- Planning the most efficient order of machine operations for each job.
- Checking that work meets quality and technical standards.
- Routine maintenance and risk prevention procedures.
- Documenting/Recording information - entering and recording the information in written or electronic form.

Essential

- Appropriate qualification (NVQ level 3, C&G, BTEC…).
- In-depth understanding of CNC programming and machine operations.
- Good understanding of health and safety and the ability to work safely.
- Methodical approach to task implementation.
- Ability to produce machined items from engineering drawings as well as from verbal or hand sketched information.
- Ability to work reliably under pressure to tight deadlines.
- Demonstrated self-motivation and enthusiasm to work in a dynamic team environment.

Desirable

- Basic CAD experience.
- Experience in the use of engineering equipment such as welding, grinding, spark erosion and metrology.

Benefits

A competitive package that includes:

- Salary: £24000 - £30000 per annum

- Company pension scheme
- Company option's scheme

How to apply

Please send a covering letter / supporting statement and CV to careers@firstlightfusion.com quoting the job title in the subject. Two referees should be available on request.

Informal enquiries may also be addressed to careers@firstlightfusion.com.

CVs sent by recruitment agencies will not be read, and in the event that the company receives a CV from both the direct applicant and a recruitment agency the CV will be treated as a direct application by the individual only. Unsolicited contact from recruitment agencies will be disregarded.

First Light Fusion

First Light Fusion Ltd is a lean, focused and agile corporation researching energy generation by inertial confinement fusion. The company was spun out from the University of Oxford in June 2011 and is based near Oxford. First Light continues to work closely with the academic community, both in the UK and internationally. The company is well-funded by both institutional investors and private individuals.

Inertial confinement fusion for energy generation is a well-established research field and is being pursued in many laboratories worldwide, perhaps most notably in the US at the National Ignition Facility. First Light is exploring a number of alternative research directions that harness the same fundamental physics, with the prime focus being power generation. First Light's work to-date has included theoretical analysis, detailed numerical simulation and experimental validation. This has allowed description of the accessible parameter space and has led to a clear vision of the pathway to fusion.

First Light has also considered the costs and engineering practicalities of a reactor implementing its technology and can articulate a number of advantages over other approaches. Additionally, the energy focusing processes being pursued form the foundations of a new technological platform where secondary opportunities exist in a number of alternative applications, for example material processing and chemical manufacture.