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# Research Engineering Technician

## Job Ref 135

### Job Description

First Light Fusion is a deep tech startup working on the generation of clean and renewable energy, using inertial confinement fusion. We use a variety of optical diagnostics to monitor target and launcher performance. These include measurements of light energy, projectile velocity and electrical current in our high voltage launcher, as well as ultra-high speed imaging of our targets.

Our suite of experimental diagnostics has now been centralised and can be run on any of our 2 pulsed power facilities or 2 stage light gas guns. You will assist in the operation, maintenance and development of these capabilities.

We believe this is an exciting and varied role as you will interact with all the experiments taking place at First Light using a broad range of advanced diagnostics in a fast paced environment. While being a specialist, you will also interact with other teams to understand future requirements.

#### Responsibilities will include:

- General support of scientific experiments
- Optical diagnostics alignment and calibration
- Continuous development and maintenance of experimental equipment and diagnostics suite

#### Essential

- A level or equivalent in physics/engineering or related subject.
- Background in physics or engineering.
- Highly analytical approach to work.
- Fast and effective problem-solving skills.
- Ability to work under pressure to tight deadlines while maintaining high quality output.
- Strong communication and interpersonal skills.
- Demonstrable ability to keep good records, documentation and a high overall level of organisation





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### Desirable

- Practical experience working with optics/high speed cameras in a scientific environment. Further training will be provided by FLF if needed.
- Theoretical knowledge of optics.
- Experience with a variety of optical diagnostics and laser safety procedures.
- Experience with high-power lasers (CW and Pulsed). You will be trained on the laser systems we use.
- Experience with fibre optic systems

### Benefits

- Competitive salary
- 25 days annual leave + bank holidays
- Free lunch, snacks, and soft drinks
- Cycle to work scheme
- Electric vehicle car scheme
- Relocation support
- Flexible working
- Generous share options scheme
- Health and wellbeing scheme
- 8% employer pension contribution without matching requirements
- Enhanced maternal / paternal and sick leave

### Additional information

#### How to apply

Please send your CV to [careers@firstlightfusion.com](mailto:careers@firstlightfusion.com) quoting the job title in the subject. If you don't hear back from us within four weeks, it means that unfortunately your application was unsuccessful at this time.

Informal enquiries can be sent to [careers@firstlightfusion.com](mailto:careers@firstlightfusion.com).

#### Our recruitment process

- We typically conduct two separate interviews, each one about sixty to ninety minutes long. The first interview aims to understand how your skills match the requirements for the job. The second interview is more focused on your competencies, and your aspirations.
- We will try to understand the value you will add to First Light, and how you can thrive and be happy with us. There will be opportunity to ask us as many questions as you like.
- We do not have a dress code at First Light and regardless of seniority there is a good mix of t-shirts, trainers, shirts and blazers. For your interview, please dress in whatever makes you feel most confident and comfortable.

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- To help with coordination issues, we may arrange so that the two interviews are organised on the same day. We will also reimburse reasonable expenses you incur to come to talk to us.
- If you are the successful candidate, we will send you an offer letter and, once agreed, a contract.

#### [Our commitment to equality, diversity, and inclusion](#)

We are a small company with a huge mission. The only important aspect for the team, and for everyone, is the contribution they can make. Our selection process and requirements for career progression disregard gender, gender identity, race, disability, colour, religion, and all other aspects of diversity that make us all humans. Diverse teams have been proven to be better and we strongly believe it. We are not perfect, but we strive to be.

#### [Information for recruiters](#)

We work with a trusted network of recruiters, therefore CVs sent by other recruitment agencies will not be considered. If 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

We are a lean, focused, and agile company researching energy generation by inertial confinement fusion. We spun out from the University of Oxford in June 2011 and are based near Oxford. First Light continues to collaborate 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, most notably in the US at the National Ignition Facility. We are exploring a number of alternative research directions that harness the same fundamental physics, with the prime focus being power generation. Our work to-date has included theoretical analysis, detailed numerical simulation, and experimental validation. We have a clear vision of the pathway to a power plant.

We really believe fusion will be solved in the 2020s. If it is solved by us, fantastic, if it is solved by someone else, still great!

