



## Boost Energy Systems Ltd

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*The best phase converters in the world*

## Summer internship for engineering or physics student

### Summary

This placement will provide a good grounding in how a small electrical engineering manufacturer works, and the commercial pressures on a high technology start up. The place of work will be in a light industrial unit on a farm in Berkshire, just north of Bracknell, 50-km west of London. Basic skills required are the ability to use small tools and test equipment plus an understanding of electrical engineering principles. An appreciation of safety issues when working with  $400V_{\text{rms}}$  and large capacitors is essential. Some general lifting and general manual handling is required.

We are informal but expect people to work safely, hard and diligently. In return we are flexible and are prepared to train, teach, and hopefully even learn.

### Basic tasks

After initial training and under supervision, the work will include:

- 1) build small products using hand tools and parts, both provided,
- 2) test small and large products using existing test rig and loads, recording results,
- 3) repair units returned with faults by replacing parts,
- 4) test and set up control modules using existing test rig, probably improve test rig,
- 5) despatch goods, including form completion and liaison with transport company,
- 6) test and characterise new developments, providing feedback to design,
- 7) improve workshop facilities as required,
- 8) check deliveries and sign for them if nobody else available,
- 9) ensure that parts stock does not become so depleted that work is held up,
- 10) clear up and make workshop safe at end of each day, locking up if last to leave.

### Further tasks

An ideal candidate will also be able to model power electrical networks in steady state and transient conditions. This may be by a combination of traditional methods and/or using e.g. Matlab. Such a candidate would tend to be given more interesting R&D tasks, and as a result would be given opportunities to participate in an intensive product development process.

### Other points

Due to the nature of product development work the selected intern must sign a confidentiality agreement.

Candidates must speak and write good English. Proficiency in other languages is a great advantage.

Candidates must be legally able to work in the UK / EU; we will not support visa applications.

Flexibility can be given regarding start and finish dates to suit examinations, term times, and other commitments. We anticipate mid June through to mid-September.

### Pay & expenses

We will pay a meager wage and reasonable travel expenses by an economical mode of transport. We can loan a bicycle and provide help with finding short term local accommodation within cycling range.

### Applications

Email a letter and CV to info@boost-energy.com titled "*Application for internship from XX*" in the title. Explain your suitability in the letter, what you would cost us, and what you would hope to learn.