

# USL

## Ultrasonic Sciences Ltd

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### **JOB DESCRIPTION**

#### **ELECTRO-MECHANICAL FIELD SERVICE ENGINEER**

The Electro-mechanical **Field Service engineer** will be responsible for servicing, troubleshooting, repairing and calibrating machines on customer sites in UK and overseas. In the longer term some customer training may also be involved.

#### **THE COMPANY**

Ultrasonic Sciences Ltd designs and manufactures advanced testing machines for ultrasonic non-destructive testing. These machines are used in industries such as aerospace manufacturing, production of metallic and composite materials, production and servicing of parts for road and rail transport, semiconductor manufacture and power generation. USL manufactures the mechanical scanning and handling systems, the electrical control, a range of PC expansion boards for ultrasonic testing and motion control together with the software which drives the machines and acquires inspection data.

Our customers include world famous companies such as BAE Systems, Airbus, Rolls Royce (aero engines), GKN, Ericsson, GE and others who are suppliers to these companies. We export equipment to Europe, USA, China, Russia, Australia and Pacific Rim countries. Our machines vary from desktop units to large multi axis installations up to 20 metres long. Almost all parts of our testing machines are designed and made in house.

At present we have 25 staff with a range of skills including mechanical engineering, electrical / electronic engineering and software design. Our turnover has increased significantly in the last few years and the future workload is very strong.

## THE JOB

In this position you would be one of the primary contact points for customers reporting problems with their equipment, requesting service or calibration visits. You would take details of the problem or request and, in consultation with other USL engineers, will decide on the best course of action to take. Where a site visit is needed it will be your responsibility to visit the site as soon as practicable, diagnose and repair the fault or if this is not possible, call in another specialised USL engineer.

The constituent parts of our systems vary but include:

- Precision mechanisms
- DC servo motor drives
- Robotics
- Stepper motor drives
- Linear and rotary motion systems varying in scale
- PC and PLC control of machines
- Analogue and digital circuitry
- Heavy duty 3 phase AC motors
- Water circulation and cleaning systems
- PC expansion boards

We recognise that it will be very unlikely that anyone would have experience in all of these fields and therefore a significant period of familiarisation and on-the-job training will probably be needed. During this time you will be expected to visit our customers accompanied by another member of our staff to become familiar with the machines.

In addition to carrying out repairs and upgrades you will also be asked to carry out calibrations of systems both of our manufacture and others using instruments such as function generators and oscilloscopes. Again, we expect a period of training will probably be needed before you would be expected to be left to your own devices while carrying out this tasks, but we would at least expect you to have some aptitude in using such instruments.

You will be responsible for keeping accurate records of all work you carry out especially of all times and costs involved.

You may be asked to assist in producing maintenance manuals for new machines.

Since our machines are generally very reliable there may well be periods during which there is no call on your primary activities. During these times you will assist with manufacture of new machines, including mechanical assembly and wiring.

From time to time you will be required to be a member of a team carrying out the on-site installation of new machines and systems.

In due course, when you have enough experience, we may ask you to take on some aspects of customer training in the use and maintenance of our systems.

## **REQUIREMENTS**

You need to be a practical engineer with several years experience in servicing at least some of the equipment mentioned above. Although formal qualifications are not mandatory, completion of a recognised apprenticeship or C&G qualifications in a mechanical, electrical or electronic discipline would be an advantage.

You need to be able to recognise and fix faults in mechanical assemblies as well as electrical / electronic sub-systems.

You need to be able to work on your own initiative and be prepared sometimes to work extended hours to complete a job when the situation demands.

You need to be able to communicate clearly orally and in writing in English. Some fluency in another language, either European, Russian or Chinese would be a distinct advantage.

You need to be reasonably fit, able to work at heights occasionally and have a current driving licence without serious convictions.

You must be prepared to travel to locations in most global regions of the world, sometimes at only a few hours notice. You should consider this aspect of the job carefully before making an application.

## **SALARY AND CONDITIONS**

Salary will be based on your ability and experience up to a maximum of £30,000. You will be working initially on a 3 month probationary period, but this is not a problem if you are honest about your capabilities. (We have never found it necessary to release anyone at the end of the probationary period).

Salary increases are based on personal and company performance.

Normal working hours are Monday to Friday 9.00 to 5:30. Reasonable overtime will be required (but is not guaranteed).

Holiday entitlement is 20 days per annum plus Public holidays.

The position is based in Aldershot and a company vehicle will be made available for visits to customers. Private use of this company vehicle is not normally allowed.