



SRL Technical Services Ltd

Vibration Sensitive Facilities



We are experienced in the acoustic design of research laboratories, clean rooms and acoustically sensitive facilities, such as micro chip manufacturing plants.

We have resolved vibration issues relating to precision instrumentation and equipment, including electron microscopes through to microchip manufacturing installations. We have addressed external sources (such as road and rail traffic) as well as internally generated vibration (such as footfall and mechanical services plant).

We can also provide good room acoustics in spaces where standard acoustic absorption solutions cannot be used for hygiene and other reasons.

Bookham Technology Ltd, Abingdon

Our assessment of the clean rooms at their microchip plant concluded that although vibration from a nearby railway was acceptable, deliveries to site were causing excessive vibration and the client was able to avoid problems by managing the movement of materials on his own site.

Hewlett Packard, Ipswich

HP's Research and Development facility was located next door to a main road and transport depot piling. This created excessive levels of vibration, but we were able to design suitable vibration control within HP's building to eliminate this problem, as well as its own mechanical plant. We also monitored the technical aspects of legal agreements with the nearby company, who tested piling drivers, and oversaw the development of a more "vibration friendly" test rig.

Liverpool School of Tropical Medicine

Our involvement centred on providing a good acoustic environment within the laboratories and offices. We advised on the external glazing to control traffic noise from the busy road just outside the building. We also designed the partitions and ceilings such that they offered good privacy and a pleasant working environment.

Pfizer Laboratories Sandwich

We designed the mechanical services system to meet the noise and vibration criteria and advised on the acoustics within the laboratories. We also measured, assessed and provided advice on vibration measures for the electron microscope.

Intel, Ireland

We advised on the transfer of noise and vibration within the main microchip production hall, which contained open plan office space.

STC, London

We measured and assessed vibration in relation to a photo-aligner in order to reduce vibration to acceptable levels.

