

Micro Materials Ltd participate in Welsh Government trade mission

Wrexham, Jun 09

Micro Materials Ltd (Wrexham, UK) have been invited to participate on a trade mission hosted by the International Business Wales on behalf of the Welsh Assembly Government.

MML will join a number of innovative Welsh companies active in the aerospace and defence sectors on the trip to Washington, US, where a number of events and seminars will be held in order to showcase the capabilities of the Welsh companies to leading US industry such as NASA and Boeing.

What can MML offer the aerospace and defence community?

As more researchers develop materials and coatings on the sub-micron thickness level, the problem arises: how do you reliably test their mechanical properties under operational conditions? Only one organisation in the world can offer such advanced testing technology – Micro Materials Limited.

Their approach is unique in the industry and provides major advantages in terms of capability, flexibility and cost effectiveness. The MML NanoTest™ system is a comprehensive nanomechanical test centre, offering a range of methods of materials characterisation, including nanoindentation, nano-impact and nano-scratch and wear measurements.

Expertise & resources

In recent years, MML have pioneered nanomechanical testing in real-world conditions. This innovative approach has led to the development of unrivalled testing modules, among them the high temperature testing module, which allows testing of a sample heated up to temperatures of 750°C. MML also offer a unique liquid cell, which allows the testing of samples fully immersed in fluid. The patented MML nano-impact and fatigue system affords unrivalled information on fracture and fatigue behaviour.

Conventional testing of new nano-materials often requires a full-scale operation – testing the whole component: MML has revolutionised the industry by testing very small scale samples in simulated conditions, thus assessing the mechanical performance of targeted sites/ structures under true service conditions.

“Our approach is unique and offers the user a complete picture of material performance under a range of conditions. Results are extremely reliable – and due to vast range of options available, the system is extremely cost effective” says MML’s International Business Development Manager Denise Hoban.

Further information on Micro Materials products can be found at www.micromaterials.co.uk