



C E R E S :
CENTRE FOR
ENGINEERING AND
RESEARCH

**Design, Assembly, Integration and
Testing for R&D and Space**



WELCOME

Welcome to CERES: Centre for Engineering and Research. A unique facility created to provide our Clients with access to high quality lab space, fully equipped to support engineering design, development and testing.

The testing capabilities we can offer are applicable to a wide range of industries including, Aerospace, Defence, Consumer Products, Pharmaceutical, Materials Science and many more. This service can be used either as a facility for Clients to bring their own personnel onsite, or can be offered as a fully managed service using AEON's expert in-house engineering team to perform testing on our Client's behalf.

All our facilities are COVID secure, following the latest government guidelines.

To find out more please contact enquiries@aeon-eng.com

FACILITIES

Clean Room

- Certified to ISO 5
- Internal Size: 4250mm(L) x 2500mm(W) x 2150mm(H)
- Gowning room
- Consumables and attire can be provided

Tensile & Compression Machine

- Testing of materials and surface coatings to ISO and ECSS Standards
- Loading up to 10kN
- Strain Rates up to 1000 mm/min

Large Thermal Vacuum Chamber

- Bakeout to ESA & NASA Standards
- Vacuum to 1×10^{-9} mBar
- Temperature up to 200°C
- Fully programmable Thermal and Pressure Cycling
- 1 x ISO-K 500 Port
- 8 x ISO-KF 50 Ports
- Electrical passthroughs available
- Dry N₂ Purge available
- TQCM Sensor available for process monitoring
- Inficon vacuum gauge for full range vacuum pressure measurement from atmosphere to ultrahigh vacuum

Small Vacuum Chamber

- Internal Size: 300mm x 300mm x 300mm
- Pressure down to 1×10^{-3} mBar
- Optics Testing up to 300mm Dia, under ambient and vacuum

3D Printing

- Flashforge Creator Pro 3D Printer
- Print Area up to 227mm x 148mm x 150mm
- Materials available include: PLA, ABS and PETG

3D Scanning

- Reverse engineering of parts
- Millimetre accuracy
- AEON's engineering team can produce CAD models and technical drawings for manufacture of new components

TQCM Rental

- Our TQCM module and control unit area available for use within the large vacuum chamber or for rental
- Featuring dual thermally matched quartz crystals
- Realtime crystal monitoring and regeneration for continuous process monitoring

Metrology & Inspection

- Dedicated area for receiving parts
- Measurement equipment available for checking of part geometries

Dedicated Cleaning and Assembly Area

- Dedicated area for cleaning and assembly of both general purpose and sensitive equipment
- ESD Safe area
- Electronics and PCB Assembly
- Wiring & Harness Assembly for bespoke projects
- MLI Layup facilities

Office Space

- Secure access to dedicated office space for use whilst on site
- Full coverage in both the office and lab to the wireless guest network. Wired network connection available on request

Observation Area

- All testing can be witnessed on site from a dedicated viewing area outside the lab
- Testing can be live streamed to remote locations if necessary



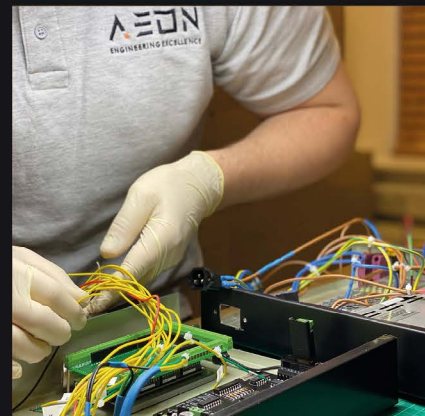
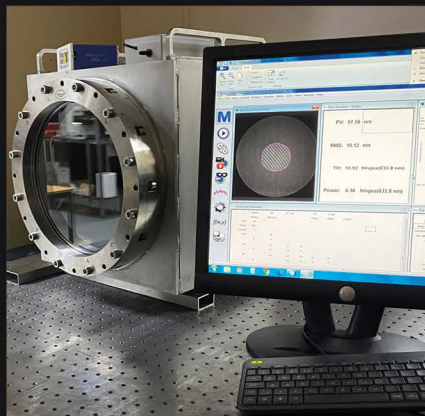
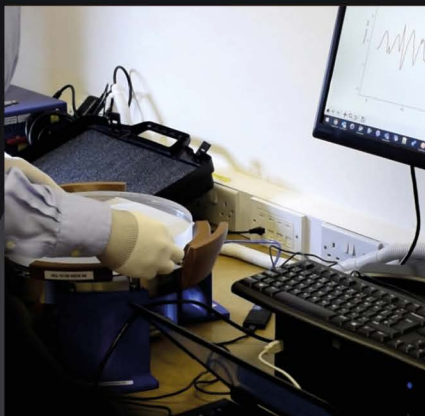
Storage & Logistics

- Secure access control to lab space for authorised personnel only
- Separate area for safe storage of parts
- Full insurance available

Lab space and facilities are available for exclusive use

- Fully trained engineers are available to perform or assist with performance and required testing
- Ample parking
- Located close to Stoke on Trent and Crewe stations, M6 and A50/M1





To find out more please contact:

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