

Nprime Limited

Facilities

Ongoing capital investment in new facilities and equipment to support our client base has seen the recent additions of new offices, a major upgrade to our technical transfer facilities and training area. Nprime has been located at Kelham Island since 2009 and recently acquired the two adjoining offices to create a training centre, strain gauge laboratory and extra facilities for our marketing and sales team. This is due to our expansion and future strategic planning for growth. Nprime owns its own dedicated offices in the exclusive area of Kelham Island, Sheffield.



Technical Transfer Facilities at Kelham Island:

- Training Centre with white board and facilities for delivering strain gauging, data acquisition, data analysis and management, Noise and vibration courses.
- Laboratory for strain gauging and system configuration
- Component and structural instrumentation testing
- Office space with state of the art working environment.

Technical Laboratory Facilities

Nprime test facilities at Neepsend Industrial Estate are set up to offer test facility, design and development across many industrial sectors. Nprime test engineers have developed unique expertise in the field of automotive test and development.

Our technical facilities execute programmes that develop test and instrumentation equipment, control and data acquisition systems, test laboratories and proving grounds (via Millbrook PG) and driver experience centre.

Nprime engineers consolidate the experiences from each project and have consequently used their practical knowledge to undertake and deliver these unique services for clients throughout the world.

Also available to our clients is our own Component test laboratory equipped with a vast range of test equipment to assess the performance of your product. Our aim is to provide rigorous assessment of the fitness for purpose of the product over its intended lifetime including material characterisation and fatigue life to failure.



Collaborative Facilities at AMP and Partners:

Additional facilities are available to Nprime at the Advanced Manufacturing Park <http://www.amptechnologycentre.co.uk/>, the AMRC with Boeing <http://www.amrc.co.uk/> and Ambassador Motor Company <http://www.ambassadormotorco.co.uk/> in Sheffield.

The Workshop laboratory units are available when the workload demands it or specific automotive project needs it. These facilities are exclusive to Nprime usages with technical staff in hand to support our engineers with any configuration of mechanical parts of vehicle/truck requirements.

The facilities are built to a high environmental standard, clean rooms with supervisory staff and high level of security with CCTV, alarm monitoring and security personnel.



Equipment

Reseller and Technical Support of the following Product Lines:

- HBM nCode Somat www.ncode.com and www.hbm.com
- ATI Telemetry www.atitelemetry.com
- Quasonix Aeronautical Telemetry www.quasonix.com
- Wyle TDS Aerospace Flight Telemetry www.wyletlds.com
- Noise and Vibration Solutions. www.bksv.co.uk

Nprime Data Acquisition Capability (COTS)

- 18 eDAQ Platforms with multiple configuration dependent on requirements
- 560 strain channels
- 800 Simultaneous Sample and Hold Analogue channels
- Multiple CAN bus
- 600 Temperature
- Single and Multi-Channel Telemetry
- Data streaming for proprietary Data Formats.
- Multiple NVH Platforms ranging from 16 to 32 Channel

Transducer Capability

- Complete Strain gauging Facility at Kelham Island and at the Advanced Manufacturing Park
- 10 ATI Single Channel Systems
- 24 Channel Multi Channel ATI telemetry System
- 12 Temperature ATI System
- 88 PCB ICP Triax Accelerometer
- Single(52), Double (18) and Triax (78) Amplified Accelerometer



- Miniature & Full size Displacement and simultaneous Velocity Transducers
- Extensive Thermocouple Capability

Personnel

- Formal Office Structure (No Virtual Office)
- Engineers with Minimum of 2.1 Honours University Degree.
- Data Processing and Data Management Experts
- Data Acquisition Engineers
- FEA Stress Analysts (ANSYS Solution)
- Four Level 1 BSSM Strain Gauge Application Personnel
- Instrumentation Technicians

Achievements

- Complete strain gauging and torsional Vibration correlation project on 1.8MW wind Turbine. Project included 24 channels of rotational strain at 2.6 kHz individual channel sample rate.
- Delivered and installed Conditioning Monitoring System for Underground Station to assess the Integrity and Structural Performance of components.
- Vehicle Noise and Vibration Assessment to Correlate Vehicle Torsional Vibration against other modes of excitation.
- Turnkey Land Rover vehicle test consisting of 488 channel system.
- Turnkey Truck instrumentation and testing of prop-shafts using telemetry on Millbrook Proving Ground and A road routes.
- Redesign of Train Bogie pin assembly including:
 1. Full scale 212 Channel Data Acquisition over two month period
 2. FEA redesign and optimisation
 3. Full scale prototype testing.
 4. Create Modification Procedure



Nprime offers our customers:

- World Class facilities at its location
- Direct access to the most comprehensive suite of test equipments including telemetry
- Extensive test, development and vehicle engineering expertise available from our engineering team
- Best engineering data analysis in reporting with data automation and condition monitoring systems
- Excellent materials and structural testing instrumentation
- Garage and workshop facilities
- Office accommodation in various configurations for teams of up to 25 staff

