

As we can leverage the EngD project with the [REDACTED], we will make use of the laboratory facilities available there.

[REDACTED]

[REDACTED] This ensures that measurements can be undertaken in the appropriate range for a variety of materials and structures. For the work outlined in this proposal, we will make use of a 100 kN capacity frame: [REDACTED] and the timing of the bid means that we will be allocated a specific frame for the duration of the project. There is also the assurance of redundancy, should this test frame be taken out of use for any reason. The facility has the flexibility to use a range of test rigs for different specimen geometries; in this case we will make use of the Instron supplied V-grips, designed for use with tubular specimens.

[REDACTED]

[REDACTED] In practice, some preparation may be required to ensure that the appropriate area can be examined, but this can be done within the Unit. [REDACTED]

[REDACTED] Electron backscatter diffraction (EBSD) is also available and may present an interesting opportunity to examine crystallographic changes in the structure of the material due to hydrogen assisted degradation, time and specimens permitting.

[REDACTED]

[REDACTED]. Their research on the physics and chemistry of the interaction of materials at the interfaces between materials to be joined is world leading. [REDACTED]