# **PheniX cryostat measurement application form**

The PheniX is equipped to a Mo sourced Kα1,2 Empyrean instrument with a secondary Zr filter for Kβ removal. The cryostat can measure a diffraction pattern from 15 to 300 K, typical runs are take several days to complete.

* A sample needs to be a dry, finely-ground powder.
* A sample should be stable towards a strong vacuum.
* A sample will be kept under vacuum during measurement but will need to be exposed to air for ~3 minutes while inserting it into the instrument.

Provided the three points above are achievable, please supply the following information:

**Chemical Composition:**

**Sample Code/Identifier:**

**Chemical Hazards (give both the hazard code and a description)**

**Room temperature diffraction pattern (please paste an image below and also supply in .xy format)**

**Scientific case for measurement (a brief description of what you’re hoping to determine from the data once collected)**

**Temperatures to be measured**

**Estimates total time (estimate 2 hours per data collection):**

**Scan range to be measured (give d-spacing or Q):**

**Preferred dates / bad dates / time constraints**