

## X-Max<sup>N</sup> 20 SDD EDS Capability on FEI Helios DBFIB

- Oxford Instrument provides a series of X-Max<sup>N</sup> SDD Energy Dispersive Spectroscopy (EDS) detectors, which is an innovative design with AZtec software to maximize the speed and accuracy for routine microanalysis applications and the frontiers of nanoanalysis.
- The X-Max<sup>N</sup> design allows users to collect large amounts of data in short time periods at lower extraction voltages with excellent resolution under normal SEM imaging conditions. The key features of this 20 SDD detector are as follows.
  - Peltier cooling, no LN needed
  - Resolution for Mn K<sub>α</sub>, F K<sub>α</sub>, C K<sub>α</sub> guaranteed at 50,000 cps
  - Peak stability guaranteed no more than 1eV
  - Detection from beryllium (Be) to Californium (Cf)
- This 20 SDD EDS has been installed on FEI Helios DBFIB in the AggieFab Nanofabrication Facility, and is now fully operational.

