

Computational Resources

Hardware

Cluster computing facility:
800+ cores (Intel® Xeon® CPU E5-2680 v4 @ 2.40GHz)
Installed at DC2 – enjoying UK's top networking infrastructure

Software

Casting simulation	ProCAST FLOW-3D MAGMA
Forming simulation	DEFORM
General FEA / CFD	ANSYS (Fluent and Mechanical) ABAQUS OpenFOAM
Microstructure simulation	MICRESS
Thermodynamic modelling	PANDAT Thermo-Calc
DFT and atomistic	VASP DL_POLY and LAMMPS
Development tools	Intel® Parallel Studio XE Professional Edition for Fortran and C++ Windows