

**FABRICATION & CHARACTERIZATION TOOLS AVAILABLE IN BSMA
(November 2017)**

Building/room	Techniques	Remarks
Boltzmann (level - 1)		
A-105.10	Ferromagnetic resonance	
A-105.11	Spintronics characterization	
A-117.20	Optical microscope (MICA)	
A-117.20	Ultramicrotome (MICA)	
A-117.20	Carbon/metal sputter (MICA)	
A-117.20	Multimode Scanning Probe Microscope (MICA)	
A-117.30	Multimode Scanning Probe Microscope (MICA)	
A-129	Transmission electron microscope (MICA)	
A-133	Scanning electron microscope (MICA)	
A-133	Nanolithography stage (MICA)	
A-135	X-ray reflectometer	
A-145	Polymer extruders	
A-145	Micro compounder with tape and fibre lines	
A-145	Brabender extruder (special alloy)	
A-145	Table extruder with water injection	to be acquired soon
A-145	Compression moulding hot press	
A-145	Brabender internal mixer	
Boltzmann (level +1)		
A155.10	Electron Beam Evaporator	
A155.10	Metal sputterer	
A165.10	AGM Magnetometer	
A165.10	Cryogenic Free Cryostat 1.5K -7Tesla	
A165.10	2 Cryogenic Free Cryostats 10K -1Tesla	
A.165.10	Controlled atmosphere horizontal tube furnace	
A-159	Optical microscope	
A136	Electrochemistry/Potentiostats	
A136	Controlled atmosphere oven	
A118	Electrochemistry/Potentiostats	
A178	Linear strain-controlled shear rheometers	
A178	Cone-plate partitioned rheometer	
A178	Filament Stretching Rheometer (VADER1000)	
A173	Tensile and compression machine for soft matter materials	will be delivered in 2018
A163	Lab (vacuum oven, hood, weighting scale)	
Boltzmann (level +2)		
A207	Glovebox	
A207	Plasma cleaner	

A207	2 Safety cabinets (laminar flow hoods)	
A207	Autoclave	will be delivered in 2018
A207	Cellular incubator	
A207	Refrigerated centrifuge	
A207	Milli-Q water apparatus	
A207	Surface grafting, polymer modification (synthesis)	
A207	Schlenk synthesis lines (x5) + ancillary equipment (ovens, pumps, etc.)	
A216	Infrared Spectrometer (MICA)	
A216	Ultrafast nano Differential Scanning Calorimeter	
A216	Differential Scanning Calorimeters	
A216	Thermogravimetric Analyzer	
A216	Dynamic Mechanical Analyzer	
A217	Dipping robot	
A219	Rotational rheometer (gel points)	
A236	Raman spectrometer (MICA)	
A240	Single wavelength ellipsometer	
A240	Spectroscopic ellipsometer with heated liquid cell	
A255-10	3D printers (x2) + materials etc	for teaching purposes
A255-10	Continuous flow synthesizer/tester	
A255.10	Electrochemistry/ Potentiostats	
A286	Contact angle goniometer	
A288	Multimode Scanning Probe Microscope (MICA)	
A286	Inverse epifluorescence microscopy (MICA)	
Maxwell	Nanoimprinter (WINFAB)	maintenance BSMA
Carnoy (C480)	Multimode Scanning Probe Microscope (MICA)	
Réaumur	Thermoset composite molding (RTM setup)	
Lavoisier (aisle C)		
C231	X-ray photoelectron spectroscopy (SUCH)	
C239	X-ray Photoelectron Spectroscopy (SUCH)	
C232	ToF-SIMS ((SUCH)	
C236	ToF-SIMS (SUCH)	
C226	Profilometer (SUCH)	
C239	Hydraulic press (SUCH)	
C223	Mechanical lathe (SUCH)	
C223	Plasma reactor (SUCH)	to be reinstalled
C268.10	QCM	
C268	Dynamic contact angle	
C268	Static contact angle	
C268	UV visible spectro-photometer	
C268	Colorimeter	
C276	Centrifuges (2)	
C290	Freeze dryer	

C276	UV-O ₃ cleaner	
C290	Critical point dryer (CPD)	
C278	3D printer	
C276	Milli-Q H ₂ O equipment	
C274	Spin-coaters (2)	
C225	Optical microscopes (2)	
C2??	Zeta potential measurement	to be acquired soon
Lavoisier (aisle B)		
B228	SEC system with triple detection	
B228	Semi preparative SEC system	
B271	Dynamic and static light scattering	
B271	Dynamic light scattering concentrated media	
B273	Glovebox	
B273	Battery tester	
B273	High-pressure stainless steel reactor	
B230	Solvent drying system and distillations	
B271	Laminar flow hood	
B230 & B224	Schlenk lines and vacuum pumps (x3)	
B271	Refractometer	
B230	Centrifuge	
B230	Spin coater	
B230	Cryostat for rotavap	