

School of Architecture, Design and the Built Environment

# Workshop facilities

Our design studios and workshops are equipped with the latest industry-standard technology and software, including:

Equipment	Description
<b>Flow Corporation CNC waterjet</b>	Waterjet cutting is one of the fastest growing major machine tool processes in the world. This £100,000 machine is able to cut almost any material to a depth of 150mm.
<b>SCM CNC 3 axis router</b>	A large format CNC router able to cut wood, plastics and aluminium.
<b>Denford CNC 4 axis router</b>	Student operated machine ideal for small model making in wood, plastic, styrofoam etc.
<b>3D printers</b>	Latest model medical grade printer to produce models or full-scale prototypes.
<b>Laser cutting machine</b>	Large and small format laser cutting machines. Students are using these student-operated machines to create their design in a range of materials.
<b>Metal working, welding, spray booths and timber machining workshop</b>	Students are trained and encouraged to operate the machinery in this fully equipped workshop.
<b>Central store</b>	This student-accessible store is equipped with a wide range of tools, all of which can be used by all students the school.
<b>Leica 3D laser scanners</b>	This equipment is used to survey buildings in 3D allowing students on a range of courses to measure structures and landscapes to design buildings and architectural features for project work.
<b>Technology studio</b>	Modern well-equipped technology studio used for class practical sessions in Electronics, Robotics, Control Systems, Hydraulics and Pneumatics.
<b>Electronic workshop</b>	This workshop offers a range of equipment which allows students to design and test lighting systems and computer controlled switching circuits for lighting design projects.
<b>Materials testing laboratory</b>	This laboratory offers a range of equipment which allows students to test materials required to manufacture design projects.
<b>Structural testing area</b>	A range of compression and tensile tension machines up to 100 tonne capacity allowing students to undertake a wide range of testing programs.
<b>Acoustic and lighting laboratories</b>	These two well-equipped laboratories offer testing and monitoring facilities for Architecture and Construction Management students.
<b>Study centre</b>	This centre, based in the Maudslay building enables students to undertake private study in a facility equipped with computers, desk space together with large format plotters, the latest and archived journals and publications.
<b>Software</b>	<p>All students in the School have access to the following software:</p> <ul style="list-style-type: none"> <li>Adobe Creative Suite Web Premium CS5 (including Photoshop, Illustrator, Dreamworks, Acrobat Pro)</li> <li>Autodesk Productivity Suite (including AutoCAD, Revit, 3DS Max Design with VRay)</li> <li>Solidworks</li> <li>Primavera</li> <li>Vectorworks</li> <li>Hevacomp</li> <li>Mircrosoft Office</li> </ul>