

# Risk Assessment Summary Report/Print (landscape)



<b>Reference</b>	2043	<b>Description of Space or Activity/Task or Equipment</b>	The Laboratory house 4 optical Microscopes, associated accessories and storgae for non hazardous samples.
<b>Assessment Date</b>	01/09/2022	<b>Publish To Portal</b>	Yes
<b>Assessor Name</b>	Ben Breeze	<b>Risk Assessment Title</b>	Millburn House Ground Floor G31 Optical Microscope Room
<b>Assessment Team Members</b>	Ben Breeze Ben Green Gloria Zhou	<b>Review Date</b>	06/09/2025
<b>Role / Space / Project Reference</b>		<b>Current Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)</b>	2
<b>Department</b>	Use the search function above or double click here for org chart -> Academic Faculties -> Faculty of Science, Engineering and Medicine -> Research Technology Platforms - RTPs -> Spectroscopy Research Technology Platform - RTP	<b>Final Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)</b>	2
<b>Location Details</b>	01.005.000.031 Millburn House Ground Floor G31 Optical Microscope Room	<b>Risk Assessment Number</b>	0
<b>Risk Assessment Category</b>	Space	<b>Additional Information</b>	Each piece of equipment has its own SoP and RA these should be followed as well as this document.
<b>Date Record Created</b>	28/09/2022		

Hazard Type & Hazard Description	Who may be at Risk? & How May Person(s) Be Harmed	Existing Control Measures	L	S	R	Where current risk is M, H or VH, what additional Control Measures are required?	L	S	R
Ionising Radiation (X-ray) Exposure to x-ray	Laboratory Worker Staff Student	Admin - Refer to more detailed risk assessment for Ionising Radiation. Justification for use of X-rays.	Serious	Unlikely	Low		Serious	Unlikely	Low

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<p>Equipment/Plant Rupture of pressurised systems.</p>	<p>Contractor Laboratory Worker Staff Student</p>	<p>Eng/Admin - Access is restricted to authorised personnel. Eng/Admin - Emergency stop controls are suitable located and identified. Admin - Associated equipment installed by competent persons. Admin - Awareness training provided. Admin - Good levels of housekeeping maintained with clean as you go policy in place. Eng - Volume of pressure tank kept to a minimum. Eng - Pressure release valves on tank.</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>
<p>Work Environment Insufficient or poor lighting.</p>	<p>Contractor Laboratory Worker Staff Student Falls Trips Bruises</p>	<p>Eng - Lighting level sufficient for work activity. Additional task lighting to be considered. When possible the full room lights are left on.</p>	<p>Superficial</p>	<p>Possible</p>	<p>Very Low</p>		<p>Superficial</p>	<p>Possible</p>	<p>Very Low</p>
<p>Hand Tools / Powered tools  Scaple and cutting tools</p>	<p>Contractor Laboratory Worker Staff Student cuts</p>	<p>Admin - Appropriate tool for the job. Admin - Defective equipment taken out of use. Admin - Hair tied back / no ties or jewellery. Admin - Portable Appliance Testing (PAT) conducted as per regime. PPE - Personal Protective Equipment (PPE) is issued and worn (specify).</p>	<p>Minor</p>	<p>Possible</p>	<p>Low</p>		<p>Minor</p>	<p>Possible</p>	<p>Low</p>

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<p>Substances Epoxy glue used for sample mounting.</p>	<p>Contractor Laboratory Worker Staff Student Irritation to skin Damage to eye Inhalation of fumes.</p>	<p>Admin - Awareness training provided. Admin - General ventilation used. Admin - Refer to relevant COSHH Assessment (see safety Folder in lab). Admin - Storage in accordance with substance requirement. Admin - University policy &amp; procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (gloves and safety glasses available in lab).</p>	<p>Minor</p>	<p>Possible</p>	<p>Low</p>		<p>Minor</p>	<p>Possible</p>	<p>Low</p>
<p>Hand Tools / Powered tools  Hand tools used for equipment set up and sample mounting.</p>	<p>Contractor Laboratory Worker Staff Student Cuts Bruises</p>	<p>Admin - Appropriate tool for the job. Admin - Defective equipment taken out of use. Admin - Hair tied back / no ties or jewellery. Admin - Portable Appliance Testing (PAT) conducted as per regime. PPE - Personal Protective Equipment (PPE) is issued and worn (specify).</p>	<p>Serious</p>	<p>Possible</p>	<p>Low</p>		<p>Serious</p>	<p>Possible</p>	<p>Low</p>
<p>Substances Solvents used for cleaning samples. Acetone 2-Propanol</p>	<p>Contractor Laboratory Worker Staff Student Irritation to skin Damage to eye Inhalation of fumes.</p>	<p>Admin - Awareness training provided. Admin - General ventilation used. Admin - Refer to relevant COSHH Assessment (see safety Folder in lab). Admin - Storage in accordance with substance requirement. Admin - University policy &amp; procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (gloves and safety glasses available in lab).</p>	<p>Minor</p>	<p>Possible</p>	<p>Low</p>		<p>Minor</p>	<p>Possible</p>	<p>Low</p>

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<p>NIR Artificial Optical Radiation - Infra red NIR light from an incoherent broad band source.</p>	<p>Contractor Laboratory Worker Staff Student Burns Damage to Eye Irritation to Eye or Skin</p>	<p>Eng/Admin - Access is restricted to authorised personnel. Eng - Specific guarding in place to reduce exposure. Admin - Information, instruction, supervision &amp; training. PPE - Personal Protective Equipment (PPE) is issued and worn (specify). Eng - Light is non coherent and non columnated so does not pose a large hazard. Elim - Light is kept at low power levels when possible. Eng - When required to be at high light iis enclosed in class style light tight boxes with interlocks.</p>	<p>Serious</p>	<p>Possible</p>	<p>Low</p>		<p>Serious</p>	<p>Possible</p>	<p>Low</p>
<p>NIR Artificial Optical Radiation - Ultraviolet UV-VIs light from an incoherent broad band source.</p>	<p>Contractor Laboratory Worker Staff Student Burns Damage to Eye Irritation to Eye or Skin</p>	<p>Eng/Admin - Access is restricted to authorised personnel. Eng - Specific guarding in place to reduce exposure. Admin - Information, instruction, supervision &amp; training. PPE - Personal Protective Equipment (PPE) is issued and worn (specify). Eng - Light is non coherent and non columnated so does not pose a large hazard. Elim - Light is kept at low power levels when possible. Eng - When required to be at high light iis enclosed in class style light tight boxes with interlocks.</p>	<p>Serious</p>	<p>Possible</p>	<p>Low</p>		<p>Serious</p>	<p>Possible</p>	<p>Low</p>

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<p>Electricity Contact with live electrics.</p>	<p>Contractor Laboratory Worker Staff Student Electocution Burns</p>	<p>Eng - Cables and leads are appropriately insulated. Eng - Fixed guarding is in place preventing access. Eng - Electrical cabinets are secured. Eng - Electrical equipment is suitably fused and earthed. Eng/Admin - Access is restricted to authorised personnel. Admin - Awareness training provided. Admin - Information, instruction, supervision &amp; training. Admin - Permit to work system establish and used. Admin - Safe System of Work (SSoW) established and trained out.</p>	<p>Major</p>	<p>Unlikely</p>	<p>Low</p>		<p>Major</p>	<p>Unlikely</p>	<p>Low</p>
<p><b>Assessment Conclusion</b></p>	<p>A low risk working area with only very minor sample handling tasks.</p>								