

Risk Assessment Summary Report/Print (landscape)



Reference	3500	Description of Space or Activity/Task or Equipment	Use of the home built transmission optical microscope and mechanically optimising its optics situated in G31 in Millburn house.
Assessment Date	06/09/2024	Publish To Portal	No
Assessor Name	Ben Breeze	Risk Assessment Title	Transmission Optical Microscope
Assessment Team Members	Sebastian Stewart-Barry	Review Date	No Review Set
Role / Space / Project Reference		Current Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	2
Department	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	Final Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	2
Location Details	01.005.000.031 Millburn House Ground Floor G31 Optical Microscope Room	Risk Assessment Number	0
Risk Assessment Category	Equipment	Additional Information	System is currently unders construction and may potentially be redesigned please consult Sebastian Stewart-Barry, Ben Green to check if there have been any live updates to the operation. System must only be used by trained personel. And A separate risk assessment must be carried out for all samples being measured
Date Record Created	06/09/2024		

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
NIR Artificial Optical Radiation - Ultraviolet Potential exposure to Non-ionising radiation (UV - burns/arc eye/cataracts)	Laboratory Worker Staff Student Laboratory Worker Staff Student	Elim - Light is kept at a low power and is highly divergent. Admin - Specific training provided for uses	Serious	Unlikely	Low		Serious	Unlikely	Low

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Equipment/Plant Contact with rotating mechanical parts (Friction). Contact with mechanical pinch or nip points.	Laboratory Worker Staff Student Cuts bruises	Admin - Safe System of Work (SSoW) established and trained out. Admin - Specific training provided to equipment operators. Eng- Loos hair to be tied back Eng - Loose clothing avoided	Minor	Unlikely	Very Low		Minor	Unlikely	Very Low
Equipment/Plant Broken glassware	Laboratory Worker Staff Student cuts	Admin - Glassware to be disposed of in the correct waste stream Admin - Specific training provided for uses PPE - Personal Protective Equipment (PPE) is issued and worn (specify).	Minor	Possible	Low		Minor	Possible	Low
NIR Artificial Optical Radiation - Infra red Potential exposure to Non-ionising radiation (Infrared - heat/cataracts)	Laboratory Worker Staff Student Light affecting eye	Elim - Light is kept at a low power and is highly divergent. Admin - Specific training provided for uses	Serious	Unlikely	Low		Serious	Unlikely	Low
Electricity Contact with live electrics.	Laboratory Worker Staff Student Electric Shock / Burns	Electric Burns Shocks	Major	Unlikely	Low		Major	Unlikely	Low
Assessment Conclusion	Very Safe Instrument								