



System Design Group

McSquared System Design Group, Inc. is an independent design consulting firm providing audio/video/control system design services throughout the world from our North Vancouver office since 1996. We are not associated with any sales firm and do not sell any products or systems, our only business is consulting. We are focused on designing the most effective technical solution for the users' needs and then successfully integrating that solution into the architectural environment.

Sound and video systems are widely used in lecture theatres, educational and training facilities. All this technology must be integrated into the architectural and acoustical environment to work effectively. This is our role, to assist the design team in bringing the technology and the environment together into a functional whole, while maintaining the architectural vision of the designer.

*Pictures shown: VGH, CESEI, SIM Centre, Wet Simulation lab*



We have an extensive background working on post secondary education facility projects permitting us to understand the importance of working with the user groups and the project stakeholders to determine and validate the specific functional, performance and operational requirements.

The teaching and learning methodologies applied in post secondary education have been changing significantly in recent years, moving from the standard classroom methodology to 'reversed lectures' (a.k.a. 'flipped lectures' ) collaboration style classrooms, simulation teaching labs and simulation centres (SIM Centers), requiring for the pedagogy, the facilities and the applied technologies to adapt accordingly.

*Pictures shown from left to right: UBC FoPS, PSC, lecture theatre, pharmacy teaching lab, collaboration seminar room*



The MC2 AV systems design team work experience includes a wide variety of dry and wet simulation type teaching labs and medical grade simulation (SIM) centres ranging from histology dry labs, Gross Anatomy wet labs, pharmacy drug labs, Physical therapy plinth labs, active-mannequin medical simulation centres and wet surgical simulation labs. A key factor to achieving the required performance, functionality and operational reliability in these types of simulation labs is the integration of the active simulator computer, camera, recording and de-briefing systems with the AV presentation, videoconferencing & streaming systems.

*Pictures shown from left to right: UBCO, HSC, Gross Anatomy Teaching lab, Histology teaching Lab*

