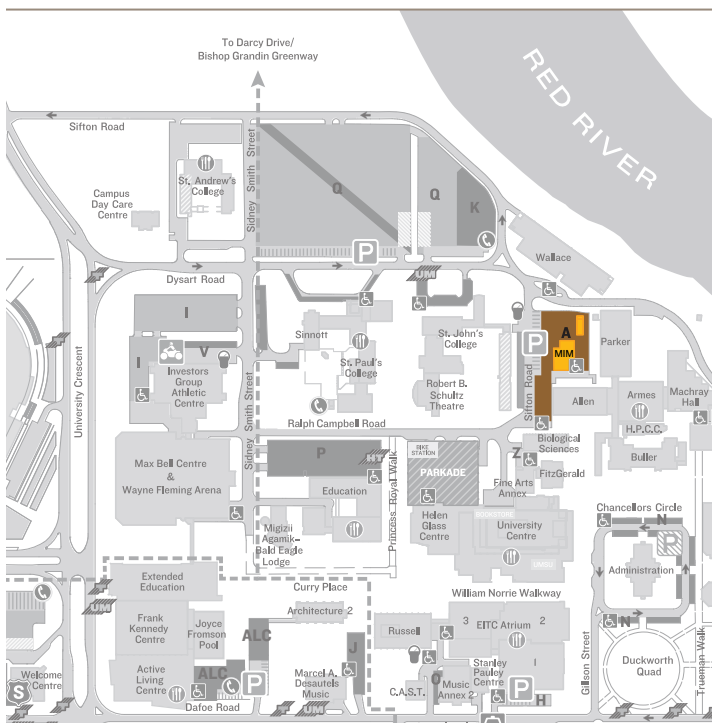


# Manitoba Institute for Materials

An interdisciplinary network that merges the experience of application with the insights of discovery.

Founded in 2009, the Manitoba Institute for Materials (MIM) brings together more than 200 researchers and students. Their collaborative endeavor is now enhanced by a newly-opened materials and composites characterization facility, conveniently located within the Fort Garry campus.

**Research at the forefront of knowledge.**



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# MANITOBA INSTITUTE FOR MATERIALS

WORLD-CLASS FACILITIES,  
INTERDISCIPLINARY AND  
COLLABORATIVE RESEARCH,  
HANDS-ON LEARNING



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Researchers and students from all disciplines collaborate in the lab. Using the world's most cutting-edge equipment to develop hands-on skills for tomorrow's workplace while tackling the challenges facing today's communities.

# AN INTERDISCIPLINARY UNDERTAKING

## TACKLING REAL PROBLEMS

MIM provides a point of contact for anyone seeking assistance with understanding challenges relating to the structure, behaviour, design and uses of materials and composites. We have and are developing collaborations with local organizations such as: Composites Innovation Centre (CIC), GE, Royal Canadian Mint, Pollard Banknote, CP Rail and Red River College.

Our diverse base of expertise and infrastructure ensures that questions can be thoroughly investigated and the outcomes supported by state-of-the-art measurements. Our internal networks ensure that new collaborators tap into expertise that can grapple with both intricacies of application and complexities of fundamentals. Dedicated technical staff train users and provide skilled and detailed analyses of samples for our partners.

### Hands-on training in a world-class facility

Our purpose-built characterization facility can be quickly reconfigured to accommodate small workshops and training sessions. The central collaboration space fosters interdisciplinary discussion and facilitates skill development. Sample preparation and complementary analytical equipment are just steps away from world-leading infrastructure. Users of the MIM facility are supported by in-house technical staff whose offices open into this space.

Our new characterization facility for materials and composites is a strategic investment in shared infrastructure. This partnership between federal (Western Economic Diversification), provincial, university and commercial (FEI, SFR, GE, CIC) interests that created the new facility is a testament to the importance of the venture.

### The facility includes:

- FEI Talos F200X S/TEM
- FEI Nova NanoSEM 450
- FEI Quanta 650 FEG ESEM
- Kratos Axis Ultra XPS

A range of bulk analytical instruments and a dedicated sample preparation laboratory complete the resources available to all users.

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