

Graduate Studies in Materials Engineering @ UBC, Vancouver

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Research in Materials Engineering

16 Research Active Faculty Members
with 3 open recruitments

Thematic research areas include:

*Process engineering; materials characterization;
theory & simulation; sustainability & sustainable materials;
materials synthesis & engineering design of materials;
materials extraction, corrosion & electrochemistry;
composites; metallurgy; semiconductors; biomaterials;
additive manufacturing/3D printing + more.*

Active teaching programs in Materials & Manufacturing
Engineering, with many graduate level courses



Materials Challenges

Many government & industrial funded programs with active collaborations & research programs to address the 'grand challenges'

- New ways of making
- Doing more with less
- Sustainability
- Electrification & Energy
- Transport
- Critical minerals

Strong links with other units (MECH, CHBE, ECE, CHEM, PHYS + more) + Industry



Programs

Masters in Applied Science (MASc) & Masters in Science (MSc) [27 students enrolled]

- Two year program – 12 course credits, 18 research credits
- BAsC/BSc + other entry requirements
- \$26k GRA minimum funding (+ other awards etc.)

PhD in Materials Engineering [44 students enrolled]

- Research intensive program, no course credit requirements
- Four year program, with typically completion in ~5 years
- MASc/MSc (or transfer from MASc/MSc program) + other entry requirements
- \$30k GRA minimum funding (+other awards etc.)

Also engagement/leadership of CREATE programs,
including “Net-Zero for Materials and Manufacturing” (Net0MM), via Prof Chad Sinclair



Follow-up & questions?



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Graduate Advisors:

Dr Ben Britton

Dr Matthias Militzer

Graduate Program Assistants:

Lydia Liu

Sharon Mangat

Becky Abbot

General Enquiries:

MTRL Graduate Office via graduate@mtrl.ubc.ca

Supplementary Resources:

- <https://www.grad.ubc.ca/prospective-students/graduate-degree-programs/master-of-applied-science-materials-engineering>
- <https://www.grad.ubc.ca/prospective-students/graduate-degree-programs/master-of-science-materials-engineering>
- <https://www.grad.ubc.ca/prospective-students/graduate-degree-programs/phd-materials-engineering>