Materials Engineering

Materials touch on every part of our lives with a wide range of applications from building airplanes to designing tape. Materials engineering is a crucial stepping stone to innovation, allowing us to push technological boundaries.

<table>
<thead>
<tr>
<th>Duration</th>
<th>MASc / MSc</th>
<th>PhD</th>
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<tbody>
<tr>
<td></td>
<td>2-year program</td>
<td>4-year program</td>
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<tr>
<th>Learning</th>
<th>Courses + Independent research</th>
<th>Independent research</th>
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<tr>
<th>Entry point</th>
<th>BASc → MASc, BSc → MSc (or equivalents)</th>
<th>MASc/MSc → PhD or internal transfer from MASc/MSc program*</th>
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<tr>
<th>Funding</th>
<th>Supervisor-led or scholarship</th>
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| Current Enrollment | 28 students | 51 students |

*for students with evidence of research potential

‘Typical’ student backgrounds: Engineering/Science focussed - Materials, Mechanical, Manufacturing, Chem. Eng, Chemistry, Physics, etc.

Research Groupings & Areas:

- Advanced Metals Processing
- Biomaterials
- Composites
- Semiconductor
- Microstructure
- Hydrometallurgy
- Corrosion

Typical student backgrounds:

- Engineering/Science focussed - Materials, Mechanical, Manufacturing, Chem. Eng, Chemistry, Physics, etc.

All Students in the Program are funded via a combination of sources: stipend (GRA), award funding (GI, ITA, PAEPI), & scholarships

Stipend - Minimum/Median amounts per year

- $27k/$29.5k (PhD, for at least 4 years)
- $23k/$25k (MASc/MSc, for at least 2 years)

from supervisor/project funds

Award Funding (subject to eligibility):

- Program – PhD + MASc/MSc
c. $2k/yr Graduate Students Initiative
  (for PhD & MASc/MSc students)
- UBC: ITA – PhD + MASc/MSc
c. $3.2k/yr for International Students
  [https://tinyurl.com/UBCITA](https://tinyurl.com/UBCITA)
- UBC: PAEPI – PhD Award
  Domestic: $1215, $555, $1425 /yr
  International: $1215, $555, $1425 /yr
  [https://tinyurl.com/PAEPIUBC](https://tinyurl.com/PAEPIUBC)

Scholarships also held/available:
e.g. 4YF, CGS-Doctoral – often with GRA ‘top-up’

Additional Departmental/Faculty merit awards are made annually - search the awards database

Students in the program can also gain experience and income a Teaching Assistants, e.g. in Materials & Manufacturing Engineering Undergraduate Programs

Contact: [graduate@mtrl.ubc.ca](mailto:graduate@mtrl.ubc.ca)
[https://mtrl.ubc.ca/graduate/](https://mtrl.ubc.ca/graduate/)

Flyer date: 2023-09-29