Our Major
Bachelor of Engineering in Materials Science and Engineering

The role of materials in our society is much more influential than most of us have realized. Our lives would be endangered by storms in the absence of dependable concrete and steel structures. Our visual defects cannot be easily corrected without glass and high refractive index scratch resistance polymers. The launching of satellites and space shuttles would not be possible without heat-resistant materials and semiconductors. Our comfortable lives are intimately associated with the discovery, selection and processing of natural and synthetic materials. Materials Engineering deals with the advancement in our understanding and manipulation of materials, which is always the forerunner to the progression of technology.

What is Materials Science and Engineering?

The Materials Science and Engineering major is the first and currently the only Materials Engineering degree in Hong Kong accredited by the Hong Kong Institution of Engineers (HKIE).

Professional Recognition

• For further details about our programme structure and other information, please visit our website: http://www.cityu.edu.hk/mse
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What is Materials Science and Engineering?

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### Professional Careers

**Materials Science and Engineering Graduates**

- Materials Engineers
- Quality Control Engineers
- Production Engineers
- Laboratory Managers
- Research & Development Engineers
- Engineering Sales Managers for high-ended equipment and sophisticated materials
- Specialists in electronics, plastics, metals, ceramics and construction industries

### Employers

<table>
<thead>
<tr>
<th>AEM Technology Hong Kong Limited</th>
<th>La Prairie Hong Kong Ltd</th>
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<tr>
<td>APMTD</td>
<td>Max Fortune Industrial Ltd.</td>
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<tr>
<td>ASM Assembly Automation Ltd</td>
<td>Modern Terminals Limited</td>
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<td>ASM Pacific Technology</td>
<td>Nano and Advanced Materials Institute Limited</td>
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<td>ATAL Engineering Ltd.</td>
<td>Neo Bern</td>
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<td>Bank of China (Hong Kong) Ltd</td>
<td>Nestle Hong Kong Ltd</td>
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<td>Beckman Coulter Hong Kong Ltd.</td>
<td>Nixon Technology Company Limited</td>
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<td>Blue Ocean Innovation Limited</td>
<td>On Board Marine Group Ltd</td>
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<td>Bright Future Pharmaceutical Laboratory Ltd</td>
<td>Orientfunds Precast Ltd</td>
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<td>Build King Construction Limited</td>
<td>OTIS Elevator Co.</td>
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<td>Building Diagnostic Consultants Ltd</td>
<td>Pacific Century Cyberworks Limited (PCCW)</td>
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<td>Bureau Veritas Hong Kong Limited</td>
<td>Pacificnet Hosting Limited</td>
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<td>Cathay Pacific Services Limited</td>
<td>PAURUS</td>
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<td>Cathay Photonics</td>
<td>Regal Oriental Hotel</td>
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<td>Chi Instrumentation Ltd</td>
<td>S&amp;Y Engineering (HK) Limited</td>
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<td>Core Tech</td>
<td>SAE Magnetic Co Ltd</td>
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<td>Cyber World Forwarder</td>
<td>School of Creativity</td>
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<td>GIA Hong Kong Laboratory Limited</td>
<td>Siemens HK Ltd</td>
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<td>Hang Seng Bank Limited</td>
<td>Soils &amp; Material Engineering Co., Ltd</td>
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<td>Health Care</td>
<td>Success Base Engineering Ltd</td>
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<td>Herald Metal &amp; Plastic Works Ltd</td>
<td>Sunciti Manufacturer Ltd</td>
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<td>Hi Tak Swimming Pool &amp; Fountain Engineering Company Limited</td>
<td>Sythy Media</td>
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<td>HKSAR Govt - Hong Kong Police Force</td>
<td>Teltec Semiconductor Pacific</td>
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<td>HKSAR Govt - Immigration Department</td>
<td>The Lab (Asia) Limited</td>
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<td>Hong Kong Aircraft Engineering Company Limited</td>
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<td>Hong Kong Aviation Ground Services Limited</td>
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<td>Intertek Testing Services Hong Kong Ltd</td>
<td>Tsuen Wan Catholic Primary School</td>
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<td>Jinchat Engineering Co Ltd</td>
<td>Way Lo Engineering Co., Ltd</td>
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<tr>
<td>Kent’s Construction &amp; Engineering Company</td>
<td>喜爾麗工程有限公司</td>
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<td>Kone Elavator</td>
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Innovative Learning Experience

Study Tour

- Exploration of Advanced Functional Materials and Their Technological Applications in Japan

Student Exchange and Internship

- University of Oxford, Oxford
- Brunel University, London

Student Activities

- Discovery-Enriched Projects - Mosquito Killer Bin
- Young Persons’ Lecture Competition (Hong Kong Heat) 2nd runner-up, Miss LAW Po In
- Discovery-Enriched Projects - Water Cubic Purifier
Admission Routes

- **HDKSE Students**
  - JUPAS
    - JUPAS Code: JS1210
    - BEng – Materials Science and Engineering
  - Non-JUPAS
    - Direct Application (Non-JUPAS)
    - Non-JUPAS Code: 1210
    - BEng – Materials Science and Engineering

- **Non-HDKSE Students**
  - BEng-Materials Science and Engineering (Year 1)
    - • Gateway Education Courses
    - • College/Department Core Course

- **Admission with Advanced Standing**
  - Depending on the qualification, students will be admitted to Year 2 or 3 of the 4-year curriculum
  - 13-year School-leaving Qualification Holders (e.g. IB Diploma, GCEAL)
  - Associate Degree/Higher Diploma Holders

- **BEng – Materials Science and Engineering (Year 2-4)**
  - • Properties of Conventional & Advanced Engineering Materials
  - • Material Testing
  - • Examination Techniques and Failure Analysis
  - • Processing of Modern & Advanced Materials

Admission Requirements

- Satisfy the Minimum Entrance Requirements of the University with a Science or Engineering background; OR
- Associate Degree or Higher Diploma Holder in a relevant discipline or other technical qualifications; OR
- 13-year School-leaving Qualification Holder (e.g. IB Diploma, GCEAL)

*For further details of entrance requirements and application procedure, please visit the website of our Admission Office: [http://www.admo.cityu.edu.hk/](http://www.admo.cityu.edu.hk/)*
HKDSE Students

JUPAS Direct Application (Non-JUPAS)

Non-HKDSE Students

BEng – Materials Science and Engineering (Year 1)

• Gateway Education Courses
• College/Department Core Course

BEng – Materials Science and Engineering (Year 2-4)

• Properties of Conventional & Advanced Engineering Materials
• Material Testing
• Examination Techniques and Failure Analysis
• Processing of Modern & Advanced Materials

Admission with Advanced Standing

Depending on the qualification, students will be admitted to Year 2 or 3 of the 4-year curriculum.

13-year School-leaving Qualification Holders (e.g. IB Diploma, GCEAL)

Associate Degree/Higher Diploma Holders

JUPAS Code: JS1210

BEng – Materials Science and Engineering Non-JUPAS Code: 1210

BEng – Materials Science and Engineering Non-JUPAS Code: 1640A

Admission Routes

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