

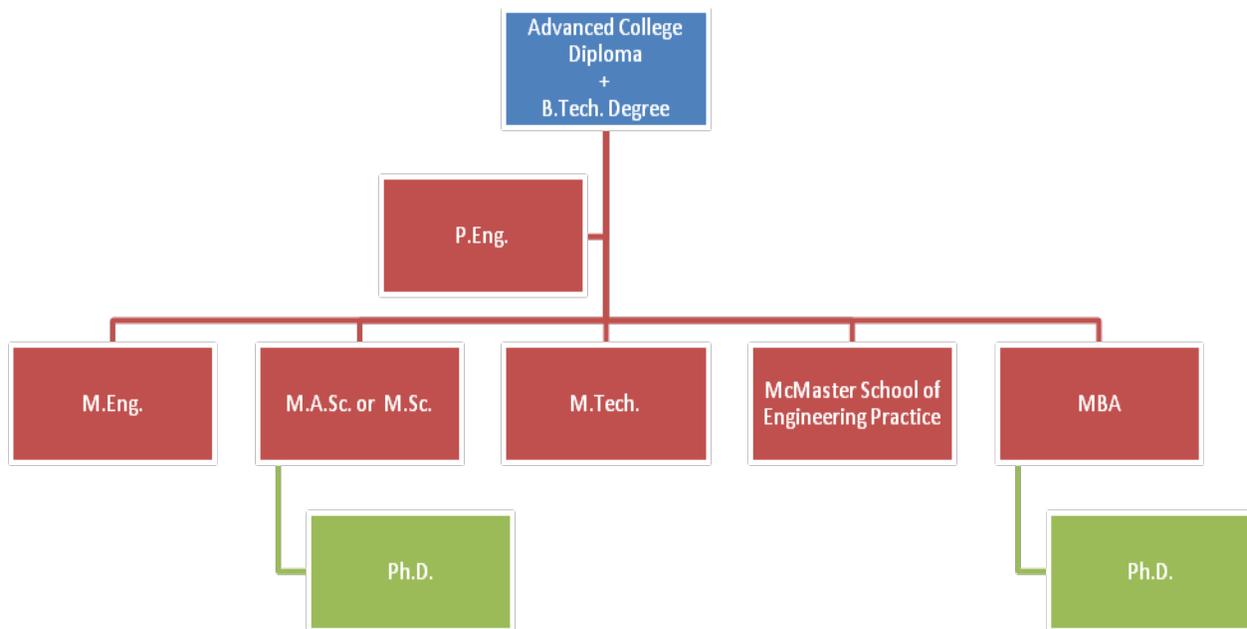
Bachelor of Technology Partnership

B.Tech. Post-Degree Pathways

Many B.Tech. students inquire about study opportunities available to them after completing undergraduate degree studies. With your four year degree from McMaster University, you can now move on to pursue professional designations or further education at the graduate (Master's or Doctoral) level.

The following four pathways are typically of interest to graduates:

1. P.Eng. status
2. Master's level studies (M.Eng., M.Sc., or M.A.Sc.) in engineering
3. Master's level studies in technology and entrepreneurship
4. Master's level studies in business (MBA)



** Please note that this document is not a comprehensive overview of all available programs; rather, it outlines some popular options offered by McMaster University as a way to illustrate the variety of choices available to you as a B.Tech. graduate.*

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PROFESSIONAL ENGINEERING STATUS (P.ENG.)

A number of B.Tech. graduates have obtained their P.Eng. status. Typically, B.Tech. graduates must:

1. write a number of examinations as specified by the PEO (for example, Manufacturing grads are required to write 4 exams [as outlined here](#))
2. write an engineering and ethics examination
3. fulfill a technical report requirement
4. complete 4 years of engineering work experience, typically under a professional engineer (up to 12 months of pre-graduation experience can be put toward the 48 month experience requirement)

In preparation for these examinations, students often study either on their own or take preparatory courses ([find a list of courses in Southern Ontario here](#)). Past experience suggests that B.Tech. graduates are able to complete personal study and be successful while others prefer to be tutored.

A formal application with complete transcripts must be made through the Professional Engineers of Ontario. Candidates should be poised to participate in an interview process, particularly where candidates wish to negotiate a reduction in final examination requirements.

Students who complete graduate level studies in Engineering or who achieve P.Eng. status may apply to receive an "Iron Ring" as an [external applicant](#).

We have had over 60 graduates successfully achieve Professional Engineering (P.Eng.) status. Of these alumni:

- 2 have won the [S.E. Wolfe PEO award for best engineering paper in Ontario](#)
- 2 have won the [The V. G. Smith Award for highest standing in PEO examinations](#)

MASTER'S OF ENGINEERING (M.ENG.)

Master of Engineering (M.Eng.) degrees are typically course-based (as opposed to research-based) and are also sometimes referred to as project-based master's degrees, since M.Eng. degrees usually comprise a combination of course work and a project. The nature of the project is usually "professional" rather than "research" (e.g. dealing with design or manufacturing problems in industry).

These kinds of programs are considered to be an excellent fit for graduates of B.Tech. programs which concentrate on developing advanced technological skills in an environment which is more concerned with applications than with research. The advanced coursework in the master's degree program and the experience developing, conducting and completing a major applications-oriented project would provide a good educational base for technologically-focused positions in industry.

Most of the Engineering Departments at McMaster University offer M.Eng. degree programs; the details of these can be found in the calendar of the McMaster University's School of Graduate Studies or on departmental web pages (<http://www.eng.mcmaster.ca/graduate/programs.html>).

In addition students may wish to consider the Advance Design and Manufacturing Institute, ADMI, program created through a partnership offered through five Ontario universities, including McMaster. Students study a selection of technical and management courses through part-time weekend study, culminating in the degree of Master of Engineering in Design and Manufacturing. A number of B.Tech. graduates have successfully completed this program. Information on ADMI is available at www.admicanada.com.

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MASTER'S OF SCIENCE OR APPLIED SCIENCE (M.Sc. OR M.A. Sc.)

Research-based master's degree programs in engineering at McMaster University lead to a Master's of Science (M.Sc.) or Master's of Applied Science (M.A.Sc.). Typically, these programs require a relatively small number of courses and a major research project culminating in a thesis. A research-based master's program is considered the ideal route towards doctoral studies.

Research-based master's programs would be suitable for B.Tech. graduates who have a very definite career objective in fundamental and/or applied research. B.Tech. graduates interested in these programs should have a very strong ability in mathematics.

Most Engineering departments at McMaster University offer M.A.Sc. degree programs; the details of these can be found in the calendar of the McMaster University's School of Graduate Studies or on departmental web pages (<http://www.eng.mcmaster.ca/graduate/programs.html>).

B.Tech. students or graduates wanting to pursue a research master's program at McMaster University are advised to contact the relevant department and arrange for an interview with a faculty member. A useful approach is to do some preliminary and preparatory investigation to identify professors whose research program aligns well with the interests and skills of the student. The same advice would apply to those seeking admission to programs at other universities.

WALTER G BOOTH SCHOOL OF ENGINEERING PRACTICE (SEP)

Professional masters degrees at McMaster University are also offered through the School of Engineering Practice (SEP). Four different degrees are offered through the SEP Centres:

- Master of Engineering Entrepreneurship and Innovation (MEEI)
<http://businessinnovation.ca/>
- Master of Engineering and Public Policy (MEPP)
<http://msep.eng.mcmaster.ca/epp/>
- Master of Engineering in Manufacturing Engineering (M.Eng)
<http://msep.eng.mcmaster.ca/manufacturing/>
- Master of Engineering Design (M.Eng. Design)
<http://msep.eng.mcmaster.ca/ced/>

B.Tech. students or graduates who are interested in any of the professional masters programs at McMaster University are advised to contact the relevant department or SEP centre and arrange for an interview to discuss their interests and qualifications for a particular program. The same advice would apply to those seeking admission to programs at other universities.

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MASTER OF BUSINESS ADMINISTRATION (MBA)

MBA programs offered at McMaster University and other universities provide an opportunity for university degree graduates in a variety of fields to develop a broad set of advanced business administration skills. Typically these programs are course-based and may include a co-op component (e.g. the MBA program offered by McMaster's DeGroote School of Business). MBA programs are quite suitable for B.Tech. graduates who wish to broaden their career opportunities to include leadership positions which require both technological and management education.

McMaster's DeGroote School of Business has indicated that they are interested in having B.Tech. graduates apply to their various MBA programs (full time, part time, etc.). The usual entrance requirements apply for B.Tech. graduates. More information on this MBA can be obtained at <http://www.degroote.mcmaster.ca/mba>.

Successful completion of an MBA could position the student for PhD studies in business.

DOCTORAL DEGREE (PH.D.)

Careers in university teaching and/or research normally require a doctorate in your discipline. B.Tech. graduates who wish to pursue this avenue of advanced study are advised to pursue a research-based master's degree initially. See the previous section on research-based master's degrees.

APPLYING TO GRADUATE SCHOOL

Every program has different requirements for admission and a unique admission process. Students are encouraged to contact the graduate programs of interest directly for more information.

As a newer program, graduates of B.Tech. may have to provide additional documentation concerning the nature and content of the program in their applications. Much of this can be found on our website – www.mybtechdegree.ca

On occasion, graduate schools may request interviews with candidates to assess their potential. In order to prepare for such interviews, it may be useful for candidates to speak to B.Tech. graduates who have been accepted into the program to which they are applying. A listing of some of the graduate programs that have accepted B.Tech. graduates is provided at the end of this document. Should you wish to contact such past graduates, call the B.Tech. Marketing & Communication Office (905.525.9140 ext. 20221).

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B.TECH. ALUMNI IN GRADUATE PROGRAMS

	M.Eng.	Engineering M.Sc. or M.A.Sc.	Business Master's	Ph.D.	Other
ADMI Joint Program	-Design and Manufacturing				
Lakehead University		-Control Engineering			
Ryerson University	-Aerospace Engineering			-Mechanical Engineering	
McMaster University	-Product Design -Civil Engineering -Software Engineering and Virtual Systems Design	-Electrical & Computer Engineering	-MBA		
New York University			-M.Sc. Management & Systems		
University of Ontario Institute of Technology		-Electrical and Computer Engineering			
University of Cambridge					-M.Phil. in Civil Engineering -Ph.D. in Construction Engineering
University of Toronto	-Mechanical & Industrial Engineering				- Master of Theology - Master of Biotechnology
University of Waterloo	-Mechanical -Mechanical & Mechatronics -Computer Engineering	-Biomedical Engineering -Mechanical & Mechatronics			
Western Michigan University	-Mechanical Engineering				
Western University	-Mechanical Engineering -Computer Science		-MBA	-Mechanical Engineering	
Wilfrid Laurier University			-MBA		

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**The above chart is NOT a comprehensive listing of all programs B.Tech. alumni have enrolled in.*