



Registration

● Policy

○ Procedure

Standard Scope Limited Licence in Professional Engineering for University Faculty

PURPOSE

For university faculty who teach courses that are primarily engineering science and/or design, and are doing engineering-related research facilitates the licensing of professors who have entered engineering departments from other disciplines and whose teaching or research has evolved to include a specific area of engineering.

CREATED

BY:	Date:	Reference:
COUNCIL	September 1, 2009	CO 09-90-4
COUNCIL	September 14, 2012	CP 12-111 ¹

BACKGROUND

APEGBC is of the opinion, and has interpreted the *Engineers and Geoscientists Act of BC* to mean, that the teaching of upper year, engineering or geoscience courses is the practice of engineering or geoscience. Therefore, when teaching those courses, university faculty members are engaged in the practice of engineering and so should be licensed. Furthermore, Canadian Engineering Accreditation Board (CEAB) criteria for program accreditation require faculty members to be licensed to practice engineering in Canada.

Faculty members who do not have an engineering education may have difficulty meeting APEGBC's academic requirements. Many of these individuals will have the engineering experience required for registration; however the gap between their education history and APEGBC's academic requirements is likely too great for an examination schedule to be feasible. These applicants will have gained the majority of their engineering knowledge through work experience or on research projects rather than coursework. Although they do not meet the academic requirements for full licensure, they may be eligible for limited licences. Conversely, faculty members who are primarily teaching engineering science and/or design may not meet APEGBC's experience requirements for registration as a professional engineer, but may be eligible for a limited licence.

POLICY

Standard Scope Limited License for University Faculty

Standard Scope: Professional engineering in the insert applicant's discipline discipline limited to teaching courses that are primarily engineering science and/or engineering design, and doing engineering related research at a university. Limited to teaching upper level courses insert applicant's area of teaching/research expertise.

Example: Professional engineering in the <<Environmental>> discipline limited to teaching courses that are primarily engineering science and/or engineering design, and doing engineering-related research at a university.

¹ Consequential change re: renaming of Applications Committee to Experience Review Panel



Limited to teaching upper level courses in <<environmental engineering, and water and waste water management>>.

Scope Limitations

The Licensee's work must be primarily research or teaching and carried out in a university setting.

The Licensee must identify the particular area of engineering science or design in which they teach and research, and must limit their professional practice to that area.

Process and Requirements (see table on following page)

Experience Requirements:

According to APEGBC's *Post-Graduate Degree Experience Credit Policy* applicants are granted up to one year of experience for a Masters degree and 2 years for a PhD (non-cumulatively). The candidates in this category will all inevitably have at least a Masters, and most likely also a PhD. Their required 10 years of experience will therefore likely be comprised of 4 years undergraduate education, 2 (or 1) years of post-graduate education and 4 (or 5) years of teaching at a university.

The requirement that the last two years be spent teaching or researching at a university is intended to ensure that the use of this scope remains specific to university faculty members.

Review Panel:

If possible the review panel and interviewers should include professors who are Professional Engineers. The practice restrictions on this license are to both the *type* and *area* of practice in which the individual may engage. Ideal reviewers would be matched to the applicant according to both restrictions (ie university faculty who work in the same discipline/area of engineering), however this may not always be possible due to the nature of academia and the specific nature of research carried out.

Job-Site Interview:

Job-site interviews are not a requirement for the standard scope license primarily because the nature of the applicant's position mitigates the practical need to verify the parameters of the applicant's practice. These individuals are being licensed to practice a particular aspect of engineering, teaching of engineering science or design, in a particular setting, at a university, the nature of their careers in academia will largely keep them within those limitations. With this in mind, the significant expense attached to a job-site interview was thought unnecessary.

Process and Requirements

General Limited Licensing		Standard Scope for University Faculty	
Requirements	Process	Requirements	Process
Bylaw 11(g) Any person may be granted a limited license to practice professional engineering or professional geoscience when the Council is satisfied that the applicant is of good character and repute	Review of character questions in application and referee forms	Required	Same as regular process
	Scope determined for individual cases	Standard Scope for University Faculty Members Scope of Practice is: <i>Professional engineering in the insert applicant's discipline discipline limited to teaching courses that are primarily engineering science and/or engineering design, and doing engineering related research at a university.</i> <i>Limited to teaching and research in insert area of applicant's teaching/research expertise.</i>	Scope is standardized for all qualifying applicants The only individual tailoring required is insertion of their particular disciplines/areas of expertise where requested

General Limited Licensing		Standard Scope for University Faculty	
Requirements	Process	Requirements	Process
<p>Academic Requirements:</p> <p>(ii) Is registered as an applied science technologist and has a degree or diploma in engineering technology or geoscience technology from an institution approved by the Council in a program approved by the Council; or</p> <p>(iii) Has other qualifications acceptable to the Council</p>	<p>Has a science degree in a discipline and from a university program approved by the Council</p> <p>Here “approved” means an education program or degree which the council (through the Registration Committee) has approved for the purposes of the applicant’s limited license.</p>	<p>Post secondary academic training in engineering, pure or applied science, or mathematics</p> <p>Masters level degree or higher</p>	<p>Transcripts may be provided by the applicants university of employment</p> <p>Thesis abstract (if applicable)</p>

General Limited Licensing		Standard Scope for University Faculty	
Requirements	Process	Requirements	Process
<p>Experience Requirements:</p> <p>(1) Has 8 years of experience in engineering or geoscience work satisfactory to the Council, the 8 years to include the years spent in obtaining the post-secondary academic training referred to in paragraph 1 with at least the last 2 years of the experience within the practice of professional engineering or professional geoscience to which the limited license is to apply</p>	<p>Four to five years after graduation The last two years to be in the scope of the licence Supported by solely-authored reports, designs, specifications; P.Eng./P.Geo. references</p>	<p>10 years² of engineering experience³ relevant to the teaching of engineering science or design including up to four years spent in post secondary education; and two in post-graduate education.</p> <p>→ The last two years must have been either teaching engineering science or design, or doing applied research in an engineering faculty at a university</p> <p>→ The most recent year must be at the stated university faculty of engineering for which the limited licence will be issued.</p>	<p>Credit may be given for up to 4 years of undergraduate and 2 years of post graduate work leaving 4 to five years of experience gained after completion of studies Experience should be supported by reports of teaching excellence, ability to secure research funding and substantial record of publication in refereed journals and conferences.</p> <p>→ Evaluated according to the APEGBC Guideline: Professional Engineer or Geoscientist Experience Gained by University Professors</p> <p>→ Experience history should include descriptions of funding received, research carried out, grad students supervised and courses taught while at the university</p> <p>P.Eng/P.Geo. references</p> <p>→ Preferably other faculty members, deans or department heads</p>

² 4 years for undergraduate work, 2 for post-graduate work, and 4 teaching experience.

³ This document is to work in conjunction with APEGBC's *Satisfactory Experience Guidelines, Post-Graduate Degree Experience Credit Policy 3.4.5, Experience Credit for Teaching Experience Policy 3.1.1.8* and *Professional Engineer or Geoscientists Experience Gained by University Professors*

General Limited Licensing		Standard Scope for University Faculty	
Requirements	Process	Requirements	Process
Professional Practice Examination (2) Has successfully completed the Professional Practice Examination; and	Written after scope is approved Law & Ethics Seminar also required by policy of Council	Required	Write the PPE at any time in the process Attend/take Law & Ethics seminar at any time in the process
Fees (3) has paid the fees prescribed by the Council for a limited license. Application Registration/Licensing Job Site Interview		Same as fees required for standard limited licenses Application Registration/Licensing	
Review & Evaluation	Applications Committee documentation review; then Panel Interview (all candidates); then Job-Site interview, → unless waived by unanimous vote of Registration Committee		Faculty member documentation review Panel Interview Job-site interview waived for the standard scope application

References

- APEGBC policies and Documents** Professional Engineer or Geoscientist Experience Gained by University Professors (#63807)
Guideline: University Professors and the Requirement for Registration (#63802)
Acceptance of Transcripts Provided by a Professor's University of Employment or a Masters or PhD Student's University of Study (#63803)
Limited Licensure for University Profs (#63180)
Post-Graduate Degree Experience Credit Policy 3.4.5
Experience Credit for Teaching Experience Policy 3.1.1.8
Limited Licence: Expedited Process For Practitioners Affected By Waste Management Act Contaminated Sites Regulation (#56205)
- PEO** Guidelines for a Specific Scope License for Faculty Members
http://www.peo.on.ca/registration/LL_Faculty.htm
Position Paper #4
- Engineers Canada** Canadian Engineers Accreditation Board (CEAB). *Accreditation Criteria and Procedures*. Canadian Council of Professional Engineers, 2008
Canadian Engineers Accreditation Board (CEAB). *Statement of Interpretation on Licensure Expectations and Requirements*. Canadian Council of Professional Engineers, 2008