

BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Special Work Session Agenda

DATE & TIME: April 20, 2022 9:00 a.m.

LOCATION: BRPELS WebEx Link

605 11th Ave SE, Suite 201 and or

Olympia, WA 98501 Tap to join from a mobile device

<u>+1-415-655-0001,,24512630451##</u> US Toll +1-206-207-1700,,24512630451## (Seattle)

1. Introductions

1.1. Board Members & Staff

1.2. Communications & Outreach Manager – Greg Schieferstein

2. Review of Current Outreach Plan

3. FE Waiver & RCW 18.43 – Direction for the Exam Qualifications Committee

4. RCW 18.43 Direction for Practice Committee

Board of Registration for Professional Engineers and Land Surveyors

Outreach Program & Guidelines

BOARD MISSION

To safeguard life, health, and property, and to promote the public welfare in regards to engineering, land surveying and on-site wastewater system design by assuring:

- Only qualified applicants are permitted to take the examinations for licensure.
- Only competent individuals are granted licensure to practice.
- Only licensed individuals are permitted to offer and/or provide service.
- Only registered businesses are authorized to provide services to the public.
- All applicants, registrants, and licensees maintain a high standard of practice and compliance with applicable statutes, rules, regulations, and ethical standards.

The Washington Board of Registration for Professional Engineers and Land Surveyors (Board) accomplishes its mission by exercising its statutory authority and obligation to review and approve applications for licensure, as well as managing, updating and enforcing the rules that govern the practices of engineering, land surveying and on-site wastewater system designing within the State of Washington.

The Board further accomplishes its mission by serving the public through maintaining relationships with its licensees' professional associations and societies; by promoting the benefits of professional licensure to post-secondary educational institutions; by interfacing with other regulatory authorities; and by increasing the public's understanding of laws and rules regulating Washington's licensed engineering, land surveying and on-site professionals.

The Board will establish a budget for the specific purpose of outreach.

LICENSED PROFESSIONALS

A. GOALS

- Disseminating statute and rule changes, activities of the Board and its various committees, and activities of the National Council of Examiners for Engineers and Surveyors (NCEES).
- 2) Providing licensees with an opportunity to attend board meetings and participate in rule making matters.
- 3) Providing licensees' engineering, land surveying, on-site wastewater design and other professional associations and societies with an opportunity to bring industry issues and concerns before and to the attention of the Board.
- 4) Supporting the development of training modules and other ways of disseminating statutory requirements to licensees.

B. METHOD OF SERVICE

- 1) Establish relationships with various engineering, land surveying and on-site wastewater associations and societies.
- 2) Attend and present at society meetings.
- 3) Encourage attendance of licensees at board meetings.
- 4) Provide timely information through the board journal, website, listserv, or social media.
- 5) Being available to participate on association focus groups or panels.

EDUCATIONAL OUTREACH - INDIVIDUALS ON THE LICENSING TRACK AND POTENTIAL LICENSEES

A. GOALS

Promoting the Board's mission and benefits of professional licensure to students and faculty in post-secondary colleges and universities and others practicing to become licensed.

Providing information and support to individuals who are on the licensing track. The constituents in this group may include students in engineering colleges/civil engineering technology programs/trade schools, engineers-in-training (EITs), land-surveyors-in-training (LSITs), individuals who have earned engineering degrees from outside the US.

B. METHOD OF SERVICE

The Board will seek out opportunities and respond to requests to support and/or participate with the state's post-secondary colleges and universities on engineering and land surveying related matters. Board's support and/or participation could include the following:

- Informational sessions on licensing procedures pertaining to education, examination, and experience for prospective professional land surveyors, engineers and onsite wastewater treatment system designers; provide information on Board activities, licensure and examination process changes, updates to Washington's laws and rules, NCEES news and updates, etc.
- 2) Reaching out to engineering colleges, trade schools, engineering technology programs to encourage licensure and to provide necessary information.
- 3) Making those on licensee track aware of the rules and regulations governing the practice of our professions in Washington State.
- 4) Being a resource to individuals who seek licensure in Washington State either through comity from various licensing jurisdictions within the US or through ABET/non-ABET accredited foreign engineering degrees.
- 5) Being available to participate in Career Fairs and Expos to provide information related to licensure application and exam processes.

OTHER REGULATORY AUTHORITIES

A. GOAL

To interface with City, County and State officials and other regulatory authorities to aid in regulating the practice of engineering, land surveying, and on-site designing.

B. METHOD OF SERVICE (CITY, COUNTY & STATE OFFICIALS)

- 1) Being available to present or speak on the scope of licensed practice, the complaint and disciplinary process, and the laws and rules that govern the practice of engineering; land surveying or on-site designing.
- 2) Providing information to city and county officials and other regulatory authorities to use regarding proper engineering, land surveying or on-site designing practices.

C. METHOD OF SERVICE (OTHER LICENSING BOARDS)

- 1) Collaborating with state licensing boards to enhance business practices related to the licensing and regulation of engineers, land surveyors, and on-site designers.
- 2) Seeking out and responding to opportunities where the Board and other state licensing boards can exchange and share new or improved ideas or business processes/ products and work jointly as members of NCEES committees and sub-committees.

PUBLIC AWARENESS

A. GOAL

To promote the benefits of professional licensure to the general public

B. METHOD OF SERVICE

- The Board and/or staff members will be available to participate in activities or speak on behalf of the Board so as to promote the understanding and value to public safety, health and welfare provided by the engineering, land surveying and on-site wastewater professions.
- 2) Develop a public interface on the board's website and look for opportunities to promote its use.
- Develop material that informs the public of the value of working with licensed professionals and distribute it to municipalities and local authorities having jurisdictions.

LEGISLATIVE OUTREACH

A. GOAL

TBD

B. METHOD OF SERVICE

1) TBD

ACTION ITEM:

The PC discussed RCW 18.43 and would like the Chair's/Board's detail of direction in the following areas of considered revision recommendations. Where multiple paths of revision are considered, such are identified as sub-details.

FE Waiver & RCW 18.43 - Direction for the Exam Qualifications Committee

- FE Waiver and/or exam equivalency for FE: Our laws require applicants pass exam in two stages to be licensed as a Professional Engineer (see RCW 18.43.040 IV B b i, ii highlighted on page two); is it possible to waive FE without violating the law.
 - This discussion will enable EQC to draft conditions under which the FE may either be waived or an exam equivalent to that of FE be accepted for applicants who satisfy certain criteria.

Questions for consideration:

- 1. Do we want to allow for a FE waiver for comity applicants who satisfy certain criteria? If so, what are those criteria? RCW 18.43.100
 - a. Nature of work experience?
 - b. Number of years of experience?
 - c. Education requirement?
 - d. Other conditions: eg. for those licensed in a jurisdiction outside WA practiced engineering without any disciplinary action for X number of years?
- 2. Do we want to allow for a FE waiver for unlicensed applicants who satisfy certain criteria? RCW 18.43.040
 - a. Nature of work experience?
 - b. Number of years of experience?
 - c. Education requirement?
 - d. Other conditions: eg. for those licensed in a jurisdiction outside WA practiced engineering without any disciplinary action for X number of years?
- 3. Do we want to allow for the equivalency of exams? As part of this, Board members could comment on the exam equivalency form the EQC has been working on.
 - a. Accepting applicants with engineering degree(s) outside the US and licensed in another country (exam equivalency for FE, PE, SE)
 - b. Accepting applicants with engineering degree(s) from within US and licensed in US in a jurisdiction outside WA without taking one or both exams (ie. FE and PE).
 - c. Do we want to accept exam equivalencies for SE licensure?

RCW 18.43.040

Registration requirements.

(1) The following will be considered as minimum evidence satisfactory to the board that the applicant is qualified for registration as a professional engineer, engineer-in-training, professional land surveyor, or land-surveyor-in-training, respectively:

of such an approved engineering course without graduation shall be considered as equivalent to a year of such required experience. Graduation in a curriculum other than engineering from a school or college approved by the board shall be considered as equivalent to two years of such required experience. However, no applicant shall receive credit for more than four years of experience because of undergraduate educational qualifications. The board may, at its discretion, give credit as experience not in excess of one year, for satisfactory postgraduate study in engineering.

- (iii) Structural engineering is recognized as a specialized branch of professional engineering. To receive a certificate of registration in structural engineering, an applicant must hold a current registration in this state in engineering and have at least two years of structural engineering experience, of a character satisfactory to the board, in addition to the eight years' experience required for registration as a professional engineer. An applicant for registration as a structural engineer must also pass an additional examination as prescribed by the board.
- (iv) An engineer must be registered as a structural engineer in order to provide structural engineering services for significant structures. The board may waive the requirements of this subsection (1)(a)(iv) until December 31, 2010, if:
- (A) On January 1, 2007, the engineer is registered with the board as a professional engineer; and
- (B) Within two years of January 1, 2007, the engineer demonstrates to the satisfaction of the board that the engineer has sufficient experience in the duties typically provided by a professional structural engineer regarding significant structures.
- (b)(i) As an engineer-in-training: An applicant for registration as a professional engineer shall take the prescribed examination in two stages. The first stage of the examination may be taken upon submission of his or her application for registration as an engineer-in-training and payment of the application fee prescribed in RCW 18.43.050 at any time after the applicant has completed four years of the required engineering experience, as defined in this section, or has achieved senior standing in a school or college approved by the board. The first stage of the examination shall test the applicant's knowledge of appropriate fundamentals of engineering subjects, including mathematics and the basic sciences.
- (ii) At any time after the completion of the required eight years of engineering experience, as defined in this section, the applicant may take the second stage of the examination upon submission of an application for registration and payment of the application fee prescribed in RCW 18.43.050. This stage of the examination shall test the applicant's ability,

upon the basis of his or her greater experience, to apply his or her knowledge and experience in the field of his or her specific training and qualifications.

- (c)(i) As a professional land surveyor: A specific record of eight years or more of experience in land surveying work of a character satisfactory to the board and indicating that the applicant is competent to practice land surveying, and successfully passing a written or oral examination, or both, in surveying as prescribed by the board.
- (ii) Graduation from a school or college approved by the board as of satisfactory standing, including the completion of an approved course in surveying, shall be considered equivalent to four years of the required experience. Postgraduate college courses approved by the board shall be considered for up to one additional year of the required experience.
- (d)(i) As a land-surveyor-in-training: An applicant for registration as a professional land surveyor shall take the prescribed examination in two stages. The first stage of the examination may be taken upon submission of his or her application for registration as a land-surveyor-intraining and payment of the application fee prescribed in RCW 18.43.050 at any time after the applicant has completed four years of the required land surveying experience, as defined in this section, or has achieved senior standing in a school or college approved by the board. The first stage of the examination shall test the applicant's knowledge of appropriate fundamentals of land surveying subjects, including mathematics and the basic sciences.
- (ii) At any time after the completion of the required eight years of land surveying experience, as defined in this section, the applicant may take the second stage of the examination upon submission of an application for registration and payment of the application fee prescribed in RCW 18.43.050. This stage of the examination shall test the applicant's ability, upon the basis of greater experience, to apply knowledge and experience in the field of land surveying.
- (iii) The first stage shall be successfully completed before the second stage may be attempted. Applicants who have been approved by the board to take the examination based on the requirement for six years of experience under this section before July 1, 1996, are eligible to sit for the examination.
- (2) No person shall be eligible for registration as a professional engineer, engineer-in-training, professional land surveyor, or land-surveyor-in-training, who is not of good character and reputation.
- (3) Teaching, of a character satisfactory to the board shall be considered as experience not in excess of two years for the appropriate profession.

- (4) The mere execution, as a contractor, of work designed by a professional engineer, or the supervision of the construction of such work as a foreman or superintendent shall not be deemed to be practice of engineering.
- (5) Any person having the necessary qualifications prescribed in this chapter to entitle him or her to registration shall be eligible for such registration although the person may not be practicing his or her profession at the time of making his or her application.

Registration of out-of-state applicants.

The board may, upon application and the payment of a fee determined by the board, issue a certificate without further examination as a professional engineer or land surveyor to any person who holds a certificate of qualification of registration issued to the applicant following examination by proper authority, of any state or territory or possession of the United States, the District of Columbia, or of any foreign country, provided: (1) That the applicant's qualifications meet the requirements of the chapter and the rules established by the board, and (2) that the applicant is in good standing with the licensing agency in said state, territory, possession, district, or foreign country.

RCW 18.43 Direction for Practice Committee

• Administrative corrections of obsolete information. These would redact provisions dealing with timing which are fully in the past (e.g. RCW 18.43.030: "The terms of board members in office on June 11, 1986, shall not..."

RCW <u>18.43.030</u> Board of registration—Members—Terms—Qualifications—Compensation and travel expenses.

RCW <u>18.43.040</u> Registration requirements.

RCW <u>18.43.080</u> Expiration and renewals of certificates—Fees—Continuing professional development.

RCW 18.43.150 Fees—Duty of board to set—Disposition.

• Registration fee reimbursements. This would clarify the current administrative practice that application fees are not reimbursable.

RCW 18.43.050

Application—Registration fees.

Application for registration shall be on forms prescribed by the board and furnished by the director, shall contain statements made under oath, showing the applicant's education and detail summary of his or her technical work and shall contain verification of the technical work from professional engineers that supervised the applicant's technical work and have personal knowledge of the applicant's engineering experience.

The registration fee for professional engineers shall be determined by the board, which shall accompany the application and shall include the cost of examination and issuance of certificate. The fee for engineer-in-training shall be determined by the board, which shall accompany the application and shall include the cost of examination and issuance of certificate.

The registration fee for professional land surveyors shall be determined by the board, which shall accompany the application and shall include the cost of examination and issuance of certificate. The fee for land-surveyor-in-training shall be determined by the board, which shall accompany the application and shall include the cost of examination and issuance of certificate.

Should the board find an applicant ineligible for registration, the registration fee shall be retained as an application fee.

• Renewal section clarify language. This would clarify the calendar issues of renewal with particular emphasis upon first renewal following licensure.

RCW 18.43.080

Expiration and renewals of certificates—Fees—Continuing professional development.

- (1) Certificates of registration, and certificates of authorization and renewals thereof, shall expire on the last day of the month of December following their issuance or renewal and shall become invalid on that date unless renewed. It shall be the duty of the board to notify every person, firm, or corporation registered under this chapter of the date of the expiration of his or her certificate and the amount of the renewal fee that shall be required for its renewal for one year. Such notice shall be mailed at least thirty days before the end of December of each year. Renewal may be effected during the month of December by the payment of a fee determined by the board. In case any professional engineer and/or land surveyor registered under this chapter shall fail to pay the renewal fee hereinabove provided for, within ninety days from the date when the same shall become due, the renewal fee shall be the current fee plus an amount equal to one year's fee.
- (2) Beginning July 1, 2007, the board may not renew a certificate of registration for a land surveyor unless the registrant verifies to the board that he or she has completed at least fifteen hours of continuing professional development per year of the registration period. By July 1, 2006, the board shall adopt rules governing continuing professional development for land surveyors that are generally patterned after the model rules of the national council of examiners for engineering and surveying.

- Pro-Tem limits/count. This would alter existing quantity limit of two Pro-Tem assignments.
 - Current recommendation is increase to 3.
 - Potential increase greater as a function of case load and distribution and Board budget and funding.

For consideration: increasing to 3 would align with RCW 18.235.040 – Director's Authority

The director has the following additional authority: (2) Upon request of a board or commission, to appoint not more than three pro tem members as provided in this subsection.

RCW 18.43.033

Pro tem board members—Limits—Duties.

Upon request of the board, and with approval of the director, the board chair shall appoint up to two individuals to serve as pro tem members of the board. The appointments are limited, as defined by the board chair, for the purpose of participating as a temporary member of the board on any combination of one or more committees or formal disciplinary hearing panels. An appointed individual must meet the same qualifications as a regular member of the board. While serving as a board member pro tem, an appointed person has all the powers, duties, and immunities of a regular member of the board and is entitled to the same compensation, including travel expenses, in accordance with RCW 18.43.030. A pro tem appointment may not last for more than one hundred eighty days unless approved by the director.

- Board composition. This would recommend changes which could alter the composition
 of the Board. If inclusive of the potential of an OSW, this would open the door to ProTem assignment of an OSW.
 - Flexing one PE position to possibly be an OSW.
 - Flexing such that all seven positions be either PE, LS, or OSW
 - Potential removal/alteration of US citizenship requirement.

Board of registration—Members—Terms—Qualifications—Compensation and travel expenses.

A state board of registration for professional engineers and land surveyors is hereby created which shall exercise all of the powers and perform all of the duties conferred upon it by this chapter. After July 9, 1986, the board shall consist of seven members, who shall be appointed by the governor and shall have the qualifications as hereinafter required. The terms of board members in office on June 11, 1986, shall not be affected. The first additional member shall be appointed for a four-year term and the second additional member shall be appointed for a three-year term. On the expiration of the term of any member, the governor shall appoint a successor for a term of five years to take the place of the member whose term on said board is about to expire. However, no member shall serve more than two consecutive terms on the board. Each member shall hold office until the expiration of the term for which such member is appointed or until a successor shall have been duly appointed and shall have qualified.

Five members of the board shall be registered professional engineers licensed under the provisions of this chapter. Two members shall be registered professional land surveyors licensed under this chapter. Each of the members of the board shall have been actively engaged in the practice of engineering or land surveying for at least ten years subsequent to registration, five of which shall have been immediately prior to their appointment to the board.

Each member of the board shall be a citizen of the United States and shall have been a resident of this state for at least five years immediately preceding his or her appointment.

Each member of the board shall be compensated in accordance with RCW <u>43.03.240</u> and, in addition thereto, shall be reimbursed for travel expenses incurred in carrying out the provisions of this chapter in accordance with RCW <u>43.03.050</u> and <u>43.03.060</u>.

The governor may remove any member of the board for misconduct, incompetency, or neglect of duty. Vacancies in the membership of the board shall be filled for the unexpired term by appointment by the governor as hereinabove provided.

- Uniformity: These would clarify definitions of terms/titles and establish consistent use of terms related to the licensed professions under this statute as:
 - Engineer as professional engineer registered in accord with this statute
 - Land surveyor as professional land surveyor registered in accord with this statute.
- Difference between practicing engineering/performing engineering and parallels for land surveying. This would seek to clarify the perceived distinction of practice of engineering or land surveying from the performance of engineering or land surveying tasks under the direct supervision a registrant.
 - Alteration/ clarification of Definition RCW 18.43.020(8): "Practice of Engineering," particularly 18.43.020(8)(b) "or who does perform..."
 - Alteration/ clarification of Definition RCW 18.43.020(9): "Practice of Land Surveying"
 - Potential changes of RCW 18.43.120 (Violations and penalties) to clarify practice/performance under direct supervision of a registrant.

Definitions.

The definitions in this section apply throughout this chapter unless the context clearly requires otherwise.

- (1) "Board" means the state board of registration for professional engineers and land surveyors, provided for by this chapter.
- (2) "Director" means the executive director of the Washington state board of registration for professional engineers and land surveyors.
 - (3) "Engineer" means a professional engineer as defined in this section.
- (4) "Engineer-in-training" means a candidate who: (a) Has satisfied the experience requirements in RCW 18.43.040 for registration; (b) has successfully passed the examination in the fundamental engineering subjects; and (c) is enrolled by the board as an engineer-intraining.
 - (5) "Engineering" means the "practice of engineering" as defined in this section.
 - (6) "Land surveyor" means a professional land surveyor.
- (7) "Land-surveyor-in-training" means a candidate who: (a) Has satisfied the experience requirements in RCW 18.43.040 for registration; (b) successfully passes the examination in the fundamental land surveying subjects; and (c) is enrolled by the board as a land-surveyor-intraining.

- (8)(a) "Practice of engineering" means any professional service or creative work requiring engineering education, training, and experience and the application of special knowledge of the mathematical, physical, and engineering sciences to such professional services or creative work as consultation, investigation, evaluation, planning, design, and supervision of construction for the purpose of assuring compliance with specifications and design, in connection with any public or private utilities, structures, buildings, machines, equipment, processes, works, or projects.
- (b) A person shall be construed to practice or offer to practice engineering, within the meaning and intent of this chapter, who practices any branch of the profession of engineering; or who, by verbal claim, sign, advertisement, letterhead, card, or in any other way represents himself or herself to be a professional engineer, or through the use of some other title implies that he or she is a professional engineer; or who holds himself or herself out as able to perform, or who does perform, any engineering service or work or any other professional service designated by the practitioner or recognized by educational authorities as engineering.
- (c) The practice of engineering does not include the work ordinarily performed by persons who operate or maintain machinery or equipment.
- (9) "Practice of land surveying" means assuming responsible charge of the surveying of land for the establishment of corners, lines, boundaries, and monuments, the laying out and subdivision of land, the defining and locating of corners, lines, boundaries, and monuments of land after they have been established, the survey of land areas for the purpose of determining the topography thereof, the making of topographical delineations and the preparing of maps and accurate records thereof, when the proper performance of such services requires technical knowledge and skill.
- (10) "Professional engineer" means a person who, by reason of his or her special knowledge of the mathematical and physical sciences and the principles and methods of engineering analysis and design, acquired by professional education and practical experience, is qualified to practice engineering as defined in this section, as attested by his or her legal registration as a professional engineer.
- (11) "Professional land surveyor" means a person who, by reason of his or her special knowledge of the mathematical and physical sciences and principles and practices of land surveying, which is acquired by professional education and practical experience, is qualified to practice land surveying and as attested to by his or her legal registration as a professional land surveyor.
 - (12) "Significant structures" include:

- (a) Hazardous facilities, defined as: Structures housing, supporting, or containing sufficient quantities of explosive substances to be of danger to the safety of the public if released:
- (b) Essential facilities that have a ground area of more than five thousand square feet and are more than twenty feet in mean roof height above average ground level. Essential facilities are defined as:
 - (i) Hospitals and other medical facilities having surgery and emergency treatment areas;
 - (ii) Fire and police stations;
- (iii) Tanks or other structures containing, housing, or supporting water or fire suppression material or equipment required for the protection of essential or hazardous facilities or special occupancy structures;
 - (iv) Emergency vehicle shelters and garages;
 - (v) Structures and equipment in emergency preparedness centers;
 - (vi) Standby power-generating equipment for essential facilities;
- (vii) Structures and equipment in government communication centers and other facilities requiring emergency response;
- (viii) Aviation control towers, air traffic control centers, and emergency aircraft hangars; and
 - (ix) Buildings and other structures having critical national defense functions;
 - (c) Structures exceeding one hundred feet in height above average ground level;
- (d) Buildings that are customarily occupied by human beings and are five stories or more above average ground level;
- (e) Bridges having a total span of more than two hundred feet and piers having a surface area greater than ten thousand square feet; and
- (f) Buildings and other structures where more than three hundred people congregate in one area.

Violations and penalties.

Any person who shall practice, or offer to practice, engineering or land surveying in this state without being registered in accordance with the provisions of the chapter, or any person presenting or attempting to use as his or her own the certificate of registration or the seal of another, or any person who shall give any false or forged evidence of any kind to the board or to any member thereof in obtaining a certificate of registration, or any person who shall falsely

impersonate any other registrant, or any person who shall attempt to use the expired or revoked certificate of registration, or any person who shall violate any of the provisions of this chapter shall be guilty of a gross misdemeanor.

It shall be the duty of all officers of the state or any political subdivision thereof, to enforce the provisions of this chapter. The attorney general shall act as legal adviser of the board, and render such legal assistance as may be necessary in carrying out the provisions of this chapter.

- Conveyance/appearance to the public/assertion. This would consider personal
 perspective of representation as a registrant as described in RCW 18.43.010 General
 provisions "...tending to convey the impression..." as to whether the party has so
 represented or whether such is solely the impression upon an external party. Notably,
 RCW 18.235.010(7)(b) uses the term "representing...that the individual or business is
 qualified to practice a profession..."
- Title: adding new section to establish an explicit title act.
 - Specific identification, in association with Engineer or Land Surveyor, of titles of "Licensed," "Professional," and "Registered," and "Structural."
 - o Specific identification of licensed disciplines recognized in statutes.
 - Additional branch disciplines as specifically licensed by the Board.

Questions for consideration.

- 1. Where does the Board want to take this? Does the board feel like it's their job to regulate the title 'engineer' or the practice of engineering, or both.
 - a. Leave it the way it is now.
 - b. If we want to regulate title usage (civil engineer, mechanical engineer) where does it stop? With just the titles the board issues licenses in? What about City Engineer?
 - c. You cannot use the title engineer unless you are licensed.

RCW 18.43.010

General provisions.

In order to safeguard life, health, and property, and to promote the public welfare, any person in either public or private capacity practicing or offering to practice engineering or land surveying, shall hereafter be required to submit evidence that he or she is qualified so to practice and shall be registered as hereinafter provided; and it shall be unlawful for any person to practice or to offer to practice in this state, engineering or land surveying, as defined in the provisions of this chapter, or to use in connection with his or her name or otherwise assume, use, or advertise any title or description tending to convey the impression that he or she is a professional engineer or a land surveyor, unless such a person has been duly registered under the provisions of this chapter.