



IEEE Power & Energy Society **SCHOLARSHIP PLUS INITIATIVE®**

Preparing the Next Generation of Power & Energy Engineers



Overview

- Established to address the critical shortage of qualified power engineers in the United States and Canada
- Offers scholarships and career experience to undergraduate students to attract top talent to the power and energy field
- Undergraduate students can receive up to \$7,000 in financial support and assistance in obtaining a career experience prior to graduation

The overall goal of the initiative is to help students get interested & involved in the Power & Energy Industry.



Eligibility Requirements – Applicants must:

- Consider a career in electric power and energy engineering.
- Be working toward an electrical engineering bachelor's degree.
- Be a full-time student in the coming academic year at a university or college in the U.S. or Canada that offers undergraduate courses in power engineering.
- Willing to take at least three of the power engineering courses for a total of nine or more credits.
- U.S. or Canadian citizen or permanent resident and reside in IEEE Regions 1 through 7.
- Currently enrolled full-time at a university/college or community college.
- Current GPA is 3.0 or higher on a 4.0 scale (or equivalent).



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Recipients Receive



- Up to US\$7,000 in financial support before graduation:
 - US\$2,000 1st year
 - US\$2,000 2nd year
 - US\$3,000 3rd year

Top Scholar in each Region receives an additional US\$5,000
- Assistance in getting up to 2 years of power engineering career experience before graduation
- One free year of membership in the world's largest and oldest technical association – IEEE and its Power and Energy Society
- Access to industry professionals as part of the mentoring program

Goal is to distribute as many scholarships as possible.



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Career Experience

What is it?

- Learn about the work of power and energy engineers and to get visibility to potential employers
- Required for Scholarship renewal in years 2 and 3
- Career Experience can be gained in a number of ways
 - Internships
 - Co-ops
 - Power-related summer research
- PES Scholarship Plus team can provide assistance to PES Scholars in their efforts to find career experiences!
- PES Careers is a free IEEE PES online resource that connects power engineering students seeking career experiences with industry



Students can use PES Careers (www.pes-careers.org) to locate an internship or full time job opportunity.



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Carlton – University of Texas



We, as power engineers, are needed in almost every aspect of society and we help deliver an important product that this world cannot live without. Thus, I know that the work I do, even if it is a small part, plays a meaningful role in our society. This scholarship has made being a college student that much easier.



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Basic Commitment for a student

- What must a recipient agree to do?
 - Willingness to explore power and energy engineering as a career
 - Obtain relevant career experiences
 - Take course work on power and energy engineering subjects
 - Look for opportunities to learn about the industry (such as through industry presentations and mentoring)



No penalty if the student decides not to pursue a power & energy engineering career.



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Alisha – University of Alabama



The thing that I love about power engineering is that it truly engages with people from all walks of life. We all interact with electricity on a daily basis and the power engineering field offers me the opportunity to play a role in the delivery of this necessity. I am most excited about the rapidly changing face of the power engineering field. This is a time where the industry is being transformed in ways that it has not been shaped in decades.



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Where & When to Apply

- Application period 1 March to 30 June
- Applicants will be contacted via email Mid-September

www.ee-scholarship.org



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Scholarship Application

PES Scholarship Plus Application

Deadline for Submission || 6/30/2019 12:00 PM (EST)

Application is not submitted until you hit the submit button

Choose Action ▾

Final Review and Submit

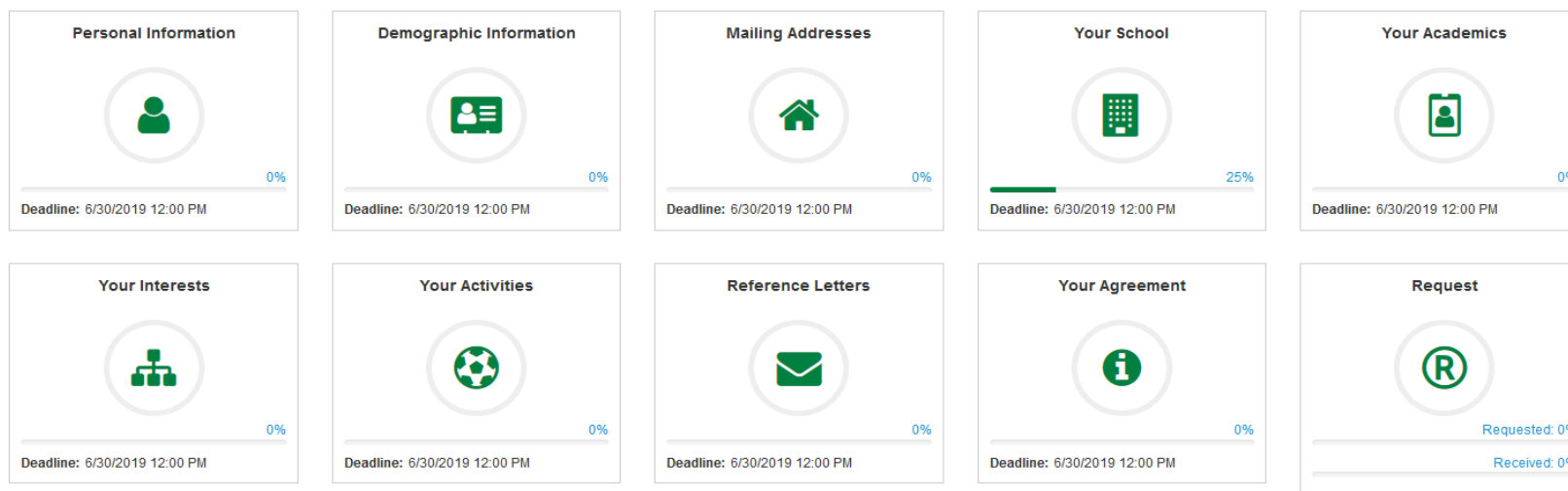
Important Instructions:

You can save your work and submit the application at a later time. Be sure to click the "Save" button at the bottom of each section. There is a time-out feature. If a page remains idle for 20 minutes, it will not automatically save your work and require you to log back in.

Once the application has been submitted, no additions or corrections to the application will be allowed.

Each section below must read 100% in order to submit your application. If a section does not read 100%, you have missed a required question(s) in that section. You may submit your application prior to your reference letters being provided. Note - some sections show % complete based on default answers selected.

IMPORTANT: Click on the Request Section Icon to send an email to individual(s) who will submit a reference letter(s) in support of your application. This should be done **immediately** so that your reference can complete this section by 30 June deadline. You will receive an email confirmation after the individual has acted upon your request.



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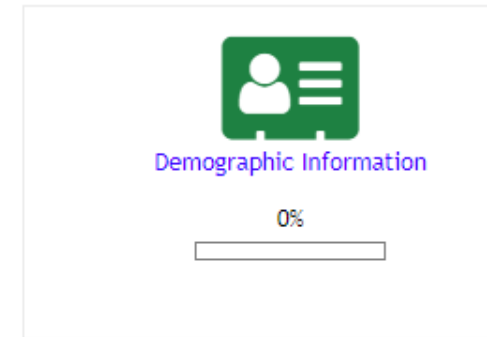
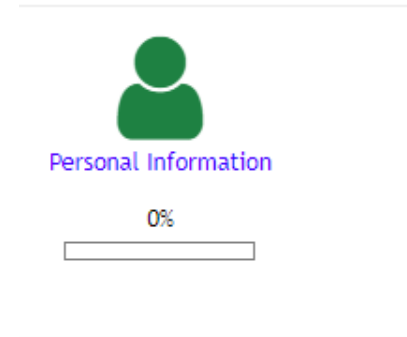
Personal Information

- Must provide respond to the following items:

- Application Type (Renewal/New)
- Name, Email, Contact Phone Number
- Citizenship Status & Gender

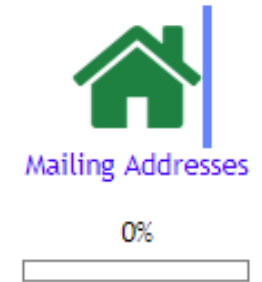
- Voluntary Self-Identification Information

- Ethnicity, Race, Veteran Status, FAFSA status
 - Individuals who are honorably discharged veterans of the U.S. Armed Forces are automatically considered for the IEEE PES G. Ray Ekenstam Memorial Scholarship
 - For each response individual has the option to “prefer not to answer”
- Providing this information will not affect the decision regarding your application. This information is kept confidential.



Mailing Address

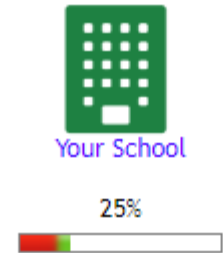
- Permanent Address is required
 - Individuals may only reside in the USA, Canada or Puerto Rico



Typically all communication is via email

Your School

- Required information
 - School that you will be attending in the Fall 2019
 - Should be listed on drop down menu – if not listed type in space provided
 - School Website
 - Your IEEE Region
 - A list of IEEE Student Branches by Region (as of Feb 2019) is available [via a google sheet](#)
 - Name of the school that you currently attend (if different from above)



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Your Academics

- Required information
 - Student Classification Next Fall
 - 2nd, 3rd, 4th or 5th year student
 - Expected Degree & Major
 - Electrical Engineering, Electrical & Computer Engineering, Electrical & Mechanical Engineering, Other
 - Upload a copy of your transcript & current GPA
 - PDF format preferred for transcript
 - Expected Graduation Date (Month/Date)
 - List of power courses you expect (or hope) to take
 - Please provide the name and course number of the power classes you have or expect to take.



Your Academics

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Typical Electrical Engineering Courses

- Electric Machinery
- Energy Conversion
- Energy Development and Power Generation
- Energy Management Systems
- Energy System Design
- High Voltage AC/DC, FACTS
- Industrial and Commercial Power Systems
- Motor Drives and Controls
- Power Electronics
- Power Quality
- Power Systems Analysis
- Power System Economics, Markets and Regulation
- Power Systems Communications
- Power System Relaying and Protection
- Power System Stability and Control
- Power System Transients
- Power Systems Instrumentation and Measurement
- Power Systems Operations, Planning and Reliability
- Photovoltaics, Wind, Renewables
- Smart Grids
- Substation Design
- Transmission and Distribution Engineering



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Your Interests

- Required to respond to the following questions.
 - Describe your interest in engineering along with your personal interests and career goals, and how they relate. How did you get interested in Engineering.
 - Please provide your personal statement. Where do you see yourself in 5, 10 or 20 years?
 - Explain why you feel that you deserve to be selected as a PES Scholar - where do you see yourself in the future?



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Your Activities



Your Activities

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- List your top achievements and/or awards you have received. Information on volunteer or employment experience is also helpful. **(Required for all)**
- Please describe any career experience/internships you are already committed to for next year, if any. List the company you worked for
 - If you are submitting a renewal application, please make sure that is noted appropriately on the personal information tab
- During the semester, do you plan to work and take classes? **(Required for all)**
- Please provide a detailed description of career experience work done or currently in progress in the power and energy engineering field. **(Required for all)**
- Please describe the opportunities taken to learn more about power engineering careers. (i.e attended conferences, participated in IEEE Chapter event **(Required for all)**)



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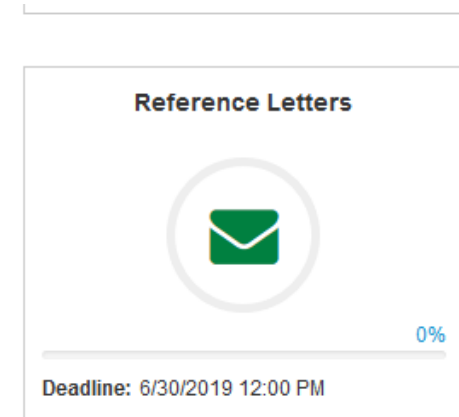
Recommendation Letters

- All PES Scholarship Plus applicants are required to have letters of recommendation in support of their application.
 - New applicants - **One letter is required** but you are encouraged to have 2 letters provided on your behalf
 - Renewal Applicants - **Two letters are required** but you can have a 3rd letter provided on your behalf
- This endorsement is should be an individual who thinks you would be a worthy recipient of a scholarship for exploring a career in power and energy engineering. This letter should NOT be from friends and family.
- References should be from professors (Science and/or engineering focus), IEEE Student Branch Adviser, a person you worked for in an engineering capacity. It is strongly preferred that renewal candidates have a reference from somebody who is familiar with their work as part of their internship/career experience.



Recommendation Letter – Cont.

- 3 ways to submit a nomination letter with application
 - Applicant upload the letter (PDF format)
 - Applicant can request that the endorser submit the letter directly to the PES Scholarship Plus Review Committee – via nominate section.
 - Have the endorser submit the recommendation via email to d.toland@ieee.org



Reference Letter - Request Section



Reference Letter 1
Request Section

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- Request Section
 - The applicant can request that the endorser submit the letter directly to the PES Scholarship Plus Review Committee.
 - From the main menu, select the button “Request Section”.
 - Applicant will be asked to provide the name and email address of the person who they would like to submit the recommendation.
 - **Reference letters are to be submitted in PDF format**
 - This individual will receive instructions on how to submit the letter and it will be automatically attached to the application.



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Your Agreement

- All applicants are requested to agree to the following statements:
 - I am willing to consider a career in electric power and energy engineering. If I am chosen to receive the scholarship, then I understand that to be eligible to receive it in subsequent years, I will need to continue to meet the eligibility criteria for the scholarship.
 - I understand that a minimum of a B overall grade average, across all courses taken, is required for scholarship renewal.
 - I will demonstrate academic progress toward an electric power and energy engineering career by taking courses in power and energy engineering at the appropriate time in my academic schedule.
 - I will be expected to obtain career experiences annually, such as through a power and energy engineering internship or cooperative.
 - I will demonstrate an interest in learning about power and energy engineering careers such as by having a mentor, taking field trips, attending informational seminars, participating in undergraduate research opportunities in power and energy engineering, taking short courses on power related topics, participating in an IEEE PES student chapter if one is available, etc.
 - It is expected that I will submit a renewal application by June 30 next year, provided that I continue to meet the eligibility requirements.
 - If I am submitting a renewal application, I understand that I am responsible for renewing my IEEE student membership in the IEEE and the Power & Energy Society after being provided with free membership in the first year of the Scholarship.
 - You agree, if selected as a recipient, that your name and university may be used for promotional efforts in support of the PES Scholarship Plus Initiative. Your name will be listed on the PES Scholarship Plus website, or in promotional materials. Additionally, any picture or testimonial that you provide may be used in appropriate promotional efforts of the initiative.
 - You agree that IEEE may contact you via email with information regarding the IEEE PES Scholarship Plus Initiative.



Your Agreement

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Frequently Asked Questions

Frequently Asked Questions

- I am in High School and will be attending a college in the fall – am I eligible for the scholarship?
 - No – individuals must be currently enrolled full-time at a university/college or community college.
- I am not a US or Canadian Citizen or permanent resident of either country – am I eligible for the scholarship?
 - Scholarship Plus Initiative is currently only open to students in Canada, Puerto Rico or the United States.
 - The PES society is having discussions on expanding the program to other parts of the world.



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FAQ's (continued)

- I attended a community college and transferred to a new school as a junior — should I include transcripts from only my current school?
 - Please provide transcripts from all post-secondary schools you have attended.
- Is the GPA requirement of at least 3.0 (out of 4.0) just the current semester/trimester or cumulative?
 - The GPA requirement is cumulative.
- Can I edit the application after I hit submit?
 - No - if you have any questions regarding the application, please contact pes-scholarship-info@ieee.org



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Renewal Requirements

- The renewal requirements for obtaining another year of the scholarship are given on the [Scholarship Plus web site](#).
- An individual who is graduating in December 2019 & beyond is eligible to apply for scholarship renewal.
 - Provided they met renewal requirements
- Regional Committees make the decision on Scholarship Renewal.
- Decision is based on how the applicants describes the career experience in the renewal application (due by June 30).
- In your description, emphasize the work you are doing, and the skills and knowledge that you are gaining, to electric power and energy engineering



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Scholarship Renewal

- The Regional Committees cannot give prior approval of a particular career experience.
- Need to receive your complete renewal application
- They will be looking at more than just the career experience so the applicant will want to clearly communicate how you have advanced your knowledge of the power and energy engineering career field since you received this year's scholarship.



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