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youngprofessionals.

# BENEFICIOS Y OPORTUNIDADES - IEEE PES

**IEEE PES – Peru Section**

13<sup>th</sup> Oct 2023



# MOTIVACIÓN

¿Realmente con 1 USD, yo puedo acceder a diversos congresos, conferencias, fondos para proyectos, biblioteca digital, revistas?

# 2023 IEEE PES R9 SCC PES STUDENT LEADERS IN-PERSON TRAINING

PREPARED BY R9 Student Chapters Committee

## THE AWARD COVERS:

- SBRM Registration
- Flights to Cartagena (Colombia)
- Hotel and Meals

## REQUIREMENTS

- Be a student (undergraduate or graduate)
- Be a PES Leader in your SB Chapter
- Have a passport if your country needs it to go to Colombia

[BIT.LY/PESTRaining](https://bit.ly/PESTRaining)



Power & Energy Society®  
Student Chapters Committee

DEADLINE  
TO APPLY

15  
SEPT



## PES TRAINING TRAVEL AWARD APPLICATION FORM

The fully completed form should be forwarded to [fernandes@ieee.org](mailto:fernandes@ieee.org) with the "Subject: PES Training Travel Award Application" and concurrently in copy to [cn.lozanor@ieee.org](mailto:cn.lozanor@ieee.org).

Please fill out this form in English.

Main conditions for providing a subsidy:

- PES membership, student grade and SB PES Chapter members, and active volunteers in the active SB PES Chapter are preferred.
- It's necessary to have a Passport or to be in the process to obtain it.

APPLICANTS	
Last name(s):	First name(s):
Email address:	
University / Occupation:	
Student status: Mark with an X	<input type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
SB PES Chapter membership in: (Name of the SB PES Chapter in VTools)	
Is an Active SB PES Chapter	<input type="checkbox"/> Yes <input type="checkbox"/> No
Attendance SCC activities	<input type="checkbox"/> R9 Town Hall Meeting (Aug 19th) <input type="checkbox"/> R9 Virtual Training (Sep 2nd)
PES Membership data	
Member since:	IEEE Membership No.:
Membership grade: Mark with an X	<input type="checkbox"/> Regular Member <input type="checkbox"/> Undergraduate Student Member <input type="checkbox"/> Graduate Student Member <input type="checkbox"/> Young Professional
IEEE function(s) in 2022:	
IEEE function(s) in 2023:	
Short description of IEEE volunteer activity (maximum one sheet of paper A4):	

# HIGH CURRENT CONTEST

**BASES E INSCRIPCIONES EN LA DESCRIPCIÓN**

⚡ Desafia tus habilidades en ingeniería eléctrica y demuestra tu destreza en el manejo de corrientes elevadas. Este concurso es tu oportunidad de brillar y mostrar tu conocimiento en el campo de la energía eléctrica.

🏆 ¡Grandes premios te esperan! Además del prestigio y reconocimiento, los ganadores recibirán emocionantes recompensas que te dejarán sin aliento.

🏆 Premios 🏆:

- 1 Primer lugar: Premio valor de 50 USD + Mini tablet + reconocimiento grabado en vidrio + 2 membresías IEEE + 2 membresía IEEE PES
- 2 Segundo lugar: Premio valor de 50 USD + reconocimiento grabado en vidrio + 1 membresía IEEE + 1 membresía IEEE PES
- 3 Tercer lugar: Premio valor de 25 USD + reconocimiento grabado en vidrio + 1 membresía IEEE PES

✅ Todos los participantes serán acreedores de un certificado de participante en "1ER HIGH CURRENT CONTEST"

📅 3 de Noviembre

✅ Link de Inscripción: <https://forms.gle/uqmYdQGxXmvBiAYT8>

✅ Bases del concurso:  
<https://drive.google.com/.../1dWcQQO1Hst2eoHy6...>

📱 Mantente atento a nuestras redes sociales para conocer detalles adicionales.

# CONTENIDO

- 01** MORE POWER TO THE FUTURE
- 02** PARTICIPACIÓN GLOBAL DE PES
- 03** JUNTA DIRECTIVA 2023 - 2024
- 04** PLAN ESTRATÉGICO
- 05** BENEFICIOS DE LA MEMBRESIA IEEE PES
- 06** HERRAMIENTAS DE APOYO PARA MIEMBROS

# MORE POWER TO THE FUTURE

## ¿Quiénes somos?

La Sociedad de Potencia y Energía (Power & Energy Society, por sus siglas en inglés), es la principal organización sin ánimo de lucro, impulsada por voluntarios de todo el mundo con la misión de ser el principal proveedor de información científica y de ingeniería sobre energía eléctrica y energía para la mejora de la sociedad.

*Approved by the IEEE PES Governing Board, 17 July 2003.*

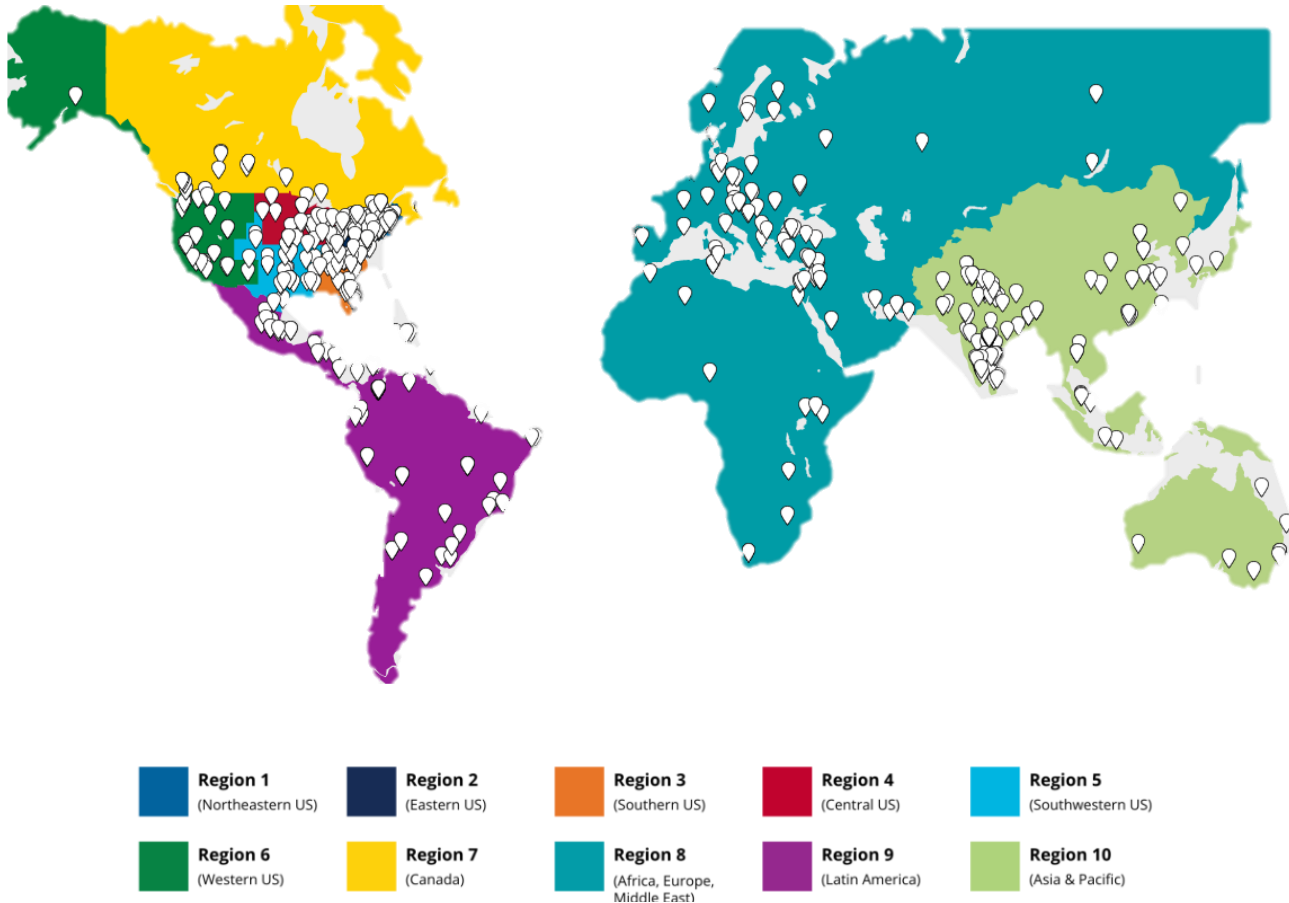


## Áreas de interés

Elaboración de normas, promoción de desarrollo de tecnologías, software y mejores prácticas en todos los ámbitos de la energía eléctrica, tanto en generación, transmisión, distribución y la utilización, con el fin de proporcionar al usuario final un sistema de suministro eléctrico de corriente alterna y continua confiable, resistente, seguro, rentable y sostenible. PES se centra en las infraestructuras actuales del sistema eléctrico y los avances tecnológicos en recursos energéticos, redes inteligentes y ciudades inteligentes para la mejora de la sociedad.

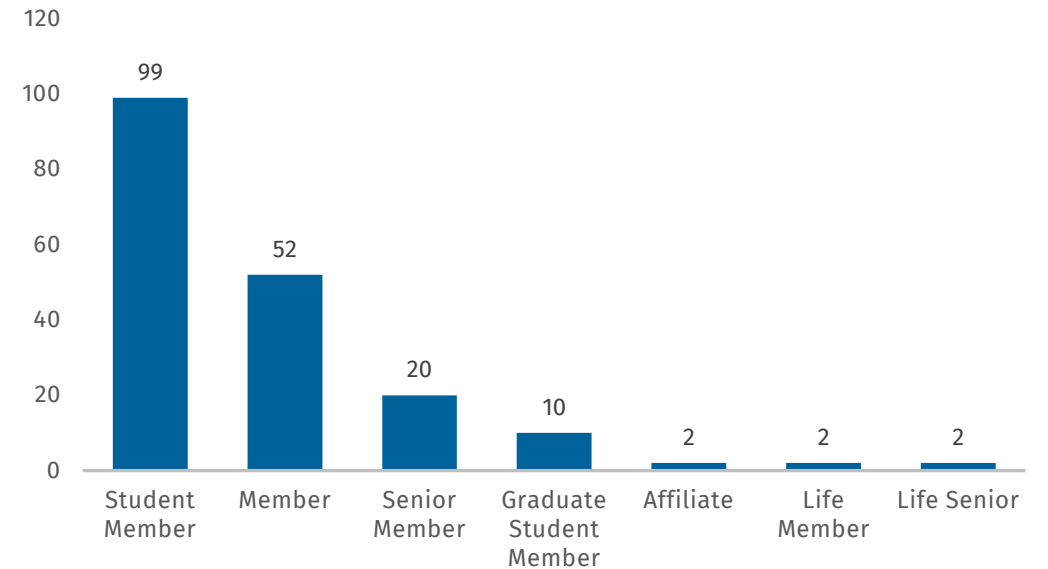
*(Aprobado en febrero de 2018 por la Junta de Actividades Técnicas del IEEE)*

# PARTICIPACIÓN GLOBAL DE PES



- + 42,000 miembros en el mundo
- + 800 capítulos locales
- + 30 conferencias anuales
- + 1,300 estándares producidos.

IEEE PES Perú Members



# JUNTA DIRECTIVA IEEE PES PERU 2023-2024



**PRESIDENTE**  
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**TESORERO**  
Julio Del Mar



**SECRETARIA**  
Chris Anaya



# PILARES ESTRATÉGICOS (2023 – 2024)



## Capacitación e Investigación (CI)

Promover el desarrollo de cursos de capacitación, grupos de investigación y publicaciones indexadas con el objetivo de intercambiar información entre los miembros PES.



## Desarrollo Profesional (DP)

Programas de mentoría y coaching para jóvenes profesionales con el fin de contribuir a su inserción laboral.



## Networking (NET)

Promover espacios de dialogo (Reuniones y actividades) y canales de contacto a fin de reforzar las relaciones. Promover alianzas estratégicas con las diferentes instituciones del sector eléctrico.



## Membresías y Nominaciones (M&N)

Incrementar el número de membresías PES.  
Nominar miembros para ser reconocidos como DLP, Fellow y Senior Member.

*2021 -2025 PES's Strategic Plan*





## BENEFICIOS DE LA MEMBRESÍA IEEE PES

- **Events** – Reduced registration rates to dozens of leading PES regional and global events.
- ISGT, T&D, General Meeting, Power Tech, etc
- **IEEE PES Resource Center** – Free access to on-demand technical papers, webinars and online tutorials, Plain Talks, and educational credits (CEUs and PDHs) in the PES-dedicated IEEE PES Resource Center.
- **Magazines** –access to the leading **IEEE Power & Energy** and **IEEE Electrification** magazines.
- **Chapter Activities** – With 800+ global chapters, there's a local chapter for you to join for free.
- **IEEE Xplore** – *Additional discounted content available in the IEEE PES digital library in IEEE Xplore.*

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## Become a PES Member

Enhance your education and professional development. Join the IEEE Power & Energy Society to access webinars, conference presentations, workshops, and more on the PES Resource Center. [Get Started »](#)

## Popular Resources



**Technical Report TR103**  
IT/OT Challenges and Opportunities To Improve Cyber Resiliency For Utilities

CLICK HERE TO ACCESS THIS TECHNICAL REPORT

**Technical Report TR115**  
Flexibility for Integrated Grid Planning with Distributed Energy Resources

CLICK HERE TO ACCESS THIS TECHNICAL REPORT

**Event Replication EMT Simulation of High-Fidelity Power Grid-PV Plant Models**

CLICK HERE TO ACCESS THIS WEBINAR VIDEO

06 Oct 2023

IT/OT Challenges and Opportunities To Improve Cyber Resiliency For Utilities

27 Sep 2023

Flexibility for Integrated Grid Planning with Distributed Energy Resources (TR115)

20 Sep 2023

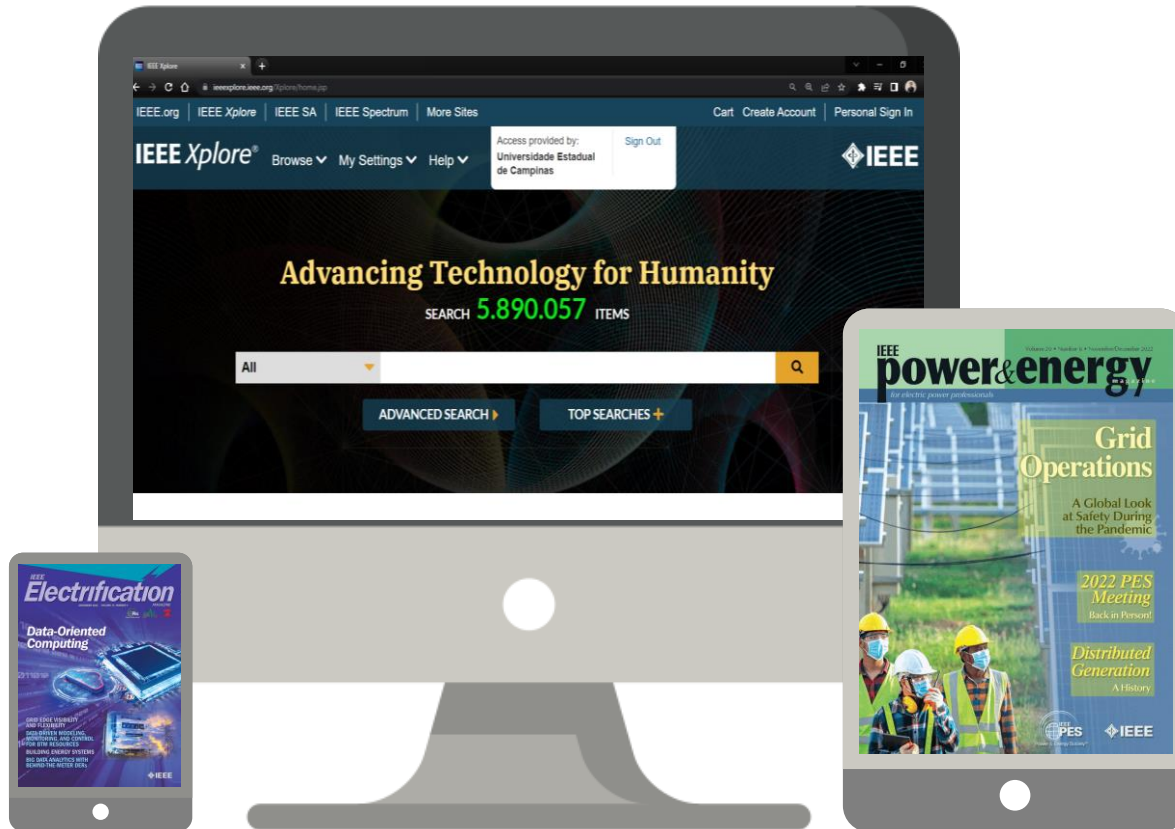
Event Replication EMT Simulation of High-Fidelity Power Grid-PV Plant Models (Video)

1.00 pdh 0.10 ceu

PES Members: **Free**  
IEEE Members: **\$45.00**  
Non-members: **\$70.00**

PES Members: **Free**  
IEEE Members: **\$45.00**  
Non-members: **\$70.00**

PES Members: **Free**  
IEEE Members: **\$11.00**  
Non-members: **\$15.00**



## Power & Energy Society Digital Library, IEEE

This digital library contains online access through **IEEE Xplore** to IEEE Transactions on Energy Conversion, IEEE Transactions on Power Delivery, **IEEE Transactions on Power Systems**, Conference Proceedings and the legacy titles Transactions on Power Apparatus & Systems and Transactions of the AIEE Part 3: Power Apparatus & Systems. The digital library is only available to IEEE members or members of its Societies.

**Access to the leading IEEE Power & Energy and IEEE Electrification magazines.**

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# An novel power dispatch optimization using linear programming and operating strategy in DC Microgrid

Publisher: IEEE Cite This PDF

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## Abstract

### Document Sections

- 1. Introduction
- 2. Mathematical Model and

## Abstract:

This paper report the proposed of an optimization process of power dispatch in a DC microgrid using principles of linear programming. The microgrid used has as microsources: a wind turbine, a solar PV plant, a battery bank, an electric load and an electrical interconnection point with utility network. The microgrid only allows the energy input from utility network. Additionally, every component is configured to offer/request a fixed nominal power of

## More Like This

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- 2017 Saudi Arabia Smart Grid (SASG) Published: 2017
- Optimal Coordination Feedback

## An novel power dispatch optimization using linear programming and operating strategy in DC Microgrid

Jorge Luis Mírez Tarrillo

Faculty of Oil, Gas and Petrochemical Engineering & Group of Mathematical Modeling and Numerical Simulation

Universidad Nacional de Ingeniería

Lima, Perú

[jmirez@uni.edu.pe](mailto:jmirez@uni.edu.pe)

IEEE Access, Volume 8, 2020, Article ID 9359425, 6 pages, doi:10.1109/ACCESS.2020.3000411

### Abstract

*This paper report the proposed of an optimization process of power dispatch in a DC microgrid using principles of linear programming. The microgrid used has as microsourses: a wind turbine, a solar PV plant, a battery bank, an electric load and an electrical interconnection point with utility network. The microgrid only allows the energy input from utility network. Additionally, every component is configured to offer/request a fixed nominal power of production/demand during periods of five minutes of duration; this is a new operating strategy: a constant power generation and consumption is defined in each microsourses, loads and storages. To optimization process search the minimum cost of production, distributing adequate the demand between microsourses and utility network under the proposed operating strategy. In this paper has been assumed that costs vary randomly in every period by each micosource and utility network. The optimization process has been development, implemented and compared with its equivalent in Matlab.*

### 1. Introduction

Electrical systems need to operate under several

(AN), Smart Grids (SG) and Microgrids (MG) [2-5] have sources of generation and storage nearest to the loads, even inside the customer buildings; so economic operation changes substantially because of the appearance of these new elements, with multiples prime resource highly dependent of the environmental conditions. The attention in this paper is the Direct Current MG (DCMG), because its multiplier technical advantages in comparison to Alternating Current MG (ACMG) [6-8].

The technical aspects of MG's operation are treated in several publications [2,8], where has been developed some ways to ensure the management of voltage and frequency [4] that have led to the creation and development of technologies, and the technics implemented in inverters [9], rectifiers [10], smart measurers, controllers of microsourses and MGs. But is usual to find that the MGs have only one source of storage for the whole MG, that is, there is no temporary storage in microsourses y loads.

There are many possible ways of business for MGs [2,4,5]. Usually, every so often is considered the energy quantity that had been dispatched [11,12]. Our scenario is that MG's have multiple owners, where each component has been implemented according to the owner's specialization; micosource and storage ensure certain power with a fixed price during the next period

# HERRAMIENTAS DE APOYO PARA MIEMBROS

## Member Driven Initiatives



Call for proposals

**OPEN NOW!**

For 2023  
PES Member-Driven  
Initiatives

Projects are  
financed up to  
US\$ 2,000

Please check all the terms and  
conditions in the website

<https://ieeepes.org/membership-chapters/member-driven-initiatives/>

[Link: Member-Driven initiatives](#)



### Proposal Execution

#### Organization and Timeline (150 words maximum) \*

Provide a basic timeline for the execution/implementation of the initiative

#### Experience (150 words maximum) \*

List your previous activities and volunteering records to support your ability to complete the initiative.

#### Number of volunteers involved: \*

How many PES member and non member volunteers are engaged in the initiative's organization and planning?

#### Organization Team (150 words maximum) \*

List the organization team involved in the initiative and the roles and responsibilities of each one.

# HERRAMIENTAS DE APOYO PARA MIEMBROS

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[Link: Member-Driven initiatives](#)



### Funding Request

#### Budget Planning (150 words maximum) \*

Provide a detailed budget for the initiative and identify which expenses are expected to be covered by the funding or other entities.

#### Funding Request (150 words maximum) \*

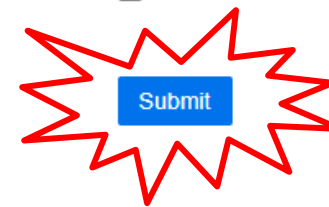
Please, describe how much you would like to request and how this funding would support the initiative.

#### File Upload \*

Please upload all vendor quotes, budget, promotional material, logo, etc here.

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# HERRAMIENTAS DE APOYO PARA MIEMBROS

## High Performing Student Branch Chapter Program

## Resultados de los últimos 5 años



# PES HPSBCP 2023 PES HPSBCP 2023

PES High Performing  
Student Branch Chapter Program

*Deadline Extended!*

**Don't miss the chance.. Submit now!!**

[www.ieee-pes.org/student-branch-hpsbcp](http://www.ieee-pes.org/student-branch-hpsbcp)



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Deadline

~~Feb 15<sup>th</sup> 2023~~

**Feb 25<sup>th</sup> 2023**

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[Link: HPSBCP](#)



## Region 9

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Search:

IEEE Region	Country	IEEE Section	IEEE PES Student Branch Chapter Name	HPSBCP 2022 Funding(USD)
Region 9	Brazil	Rio De Janeiro Section	Cefet/RJ-Centro Federal De Educ Tec Csf,PE31 SBC63491B	\$403
Region 9	Brazil	Northeast Brazil Section	Faculdade de Tecnologia Senai Cimatec,PE31 SBC06891	\$317
Region 9	Brazil	Rio De Janeiro Section	Federal Fluminense University,PE31 SBC20521	\$467
Region 9	Brazil	Northeast Brazil Section	Federal University of Bahia,PE31 SBC93051B	\$489
Region 9	Brazil	Northeast Brazil Section	Federal University of Campina Grande,PE31 SBC05141	\$462
Region 9	Brazil	South Brazil Section	Fundacao Universidade Federal do ABC, PE31 SBC03741A	\$478
Region 9	Brazil	South Brazil Section	State University of Londrina,PE31 SBC10961C	\$241
Region 9	Chile	Chile Section	Universidad De Chile,PE31 SBC11791A	\$338
Region 9	Peru	Peru Section	Universidad de Ingenieria y Tecn - UTEC, PE31 SBC14431B	\$279
Region 9	Peru	Peru Section	Universidad Nacional de Ingenieria Lima,PE31 SBC05821A	\$397

Showing 1 to 10 of 15 entries

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# HERRAMIENTAS DE APOYO PARA MIEMBROS

## High Performing Student Branch Chapter Program

## Resultados de los últimos 5 años



# PES HPSBCP 2023

## PES HPSBCP 2023

PES High Performing  
Student Branch Chapter Program

*Deadline Extended!*

Don't miss the chance.. Submit now!!

[www.ieee-pes.org/student-branch-hpsbc](http://www.ieee-pes.org/student-branch-hpsbc)



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Deadline

~~Feb 15<sup>th</sup> 2023~~

**Feb 25<sup>th</sup> 2023**

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Search:

Regional position	Official IEEE PES SB chapter name	IEEE Section	IEEE Region	Country	PES HPSBCP score (%)	Reward (US\$)	PES HPSBCP report
1	Universidade Federal da Paraiba, PE31	Northeast Brazil	Region 9 (Latin America)	Brazil	74.93	1000	Yes
2	Federal Univ of Campina Grande, PE31	Northeast Brazil	Region 9 (Latin America)	Brazil	59.15	400	Yes
3	Universidad Nat'l San Antonio Abad del Cusco, PE31	Peru Section	Region 9 (Latin America)	Peru	54.28	300	Yes
4	Universidade de Brasilia, PE31	Centro-Norte Brasil Section	Region 9 (Latin America)	Brazil	51.30	250	Yes
5	Universidad Nacional del Altiplano, PE31	Peru Section	Region 9 (Latin America)	Peru	51.23	250	Yes
6	Universidad Nacional de Ingenieria Lima, PE31	Peru Section	Region 9 (Latin America)	Peru	47.20	250	Yes
7	Univ Federal Fluminense - Uff, PE31	Rio De Janeiro Section	Region 9 (Latin America)	Brazil	39.55	250	Yes
8	Fundacao Universidade Federal do ABC, PE31	South Brazil Section	Region 9 (Latin America)	Brazil	37.02	250	Yes
9	Universidad Don Bosco, PE31	El Salvador Section	Region 9 (Latin America)	El Salvador	35.75	250	Yes
10	Universidad Tecnologica de Campeche, PE31	Mexico Section	Region 9 (Latin America)	Mexico	31.70	250	Yes

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[Link: HPSBCP](#)



# HERRAMIENTAS DE APOYO PARA MIEMBROS

## High Performing Student Branch Chapter Program

## Resultados de los últimos 5 años



# PES HPSBCP 2023

## PES HPSBCP 2023

PES High Performing Student Branch Chapter Program

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Search:

Regional position	Official IEEE PES SB chapter name	IEEE Section	IEEE Region	Country	Final PES HPSBCP score (%)	Reward (US\$)	PES HPSBCP report
1	Federal Univ of Campina Grande, PE31	Northeast Brazil Section	9	Brazil	66.59	1000 (Outstanding R1-10 IEEE PES SB chapter)	Yes
2	Universidade Federal da Paraiba, PE31	Northeast Brazil Section	9	Brazil	64.48	400	Yes
3	Universidad Nat'l San Antonio Abad del Cusco, PE31	Peru Section	9	Peru	49.51	300	Yes
4	Tucuman Nacional Univ De, PE31	Argentina Section	9	Argentina	46.91	250	Yes
5	Fundacao Universidade Federal do ABC, PE31	South Brazil Section	9	Brazil	46.04	250	Yes
6	Universidade do Estado do Rio de Janeiro, PE31/IA34	Rio De Janeiro Section	9	Brazil	44.82	250	Yes
7	Universidad de el Salvador, PE31	El Salvador Section	9	El	42.58	250	Yes

### 2019 PES HPSBCP list

Show 105 entries

Search:

Global position	Regional position	Official IEEE PES SB chapter name	IEEE Region	IEEE Section	Country	PES HPSBCP report?	PES HPSBCP score (%)	PES HPSBCP reward (US\$)
26	15	Universidad Nacional del Callao	R9	Peru	Peru	Yes	30.04	250
46	19	Universidad Nacional de Ingenieria Lima	R9	Peru	Peru	Yes	21.74	200
102	-	Universidad Nacional del Altiplano	R9	Peru	Peru	No	-	0

Showing 1 to 3 of 3 entries (filtered from 104 total entries)

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# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES SCHOLARSHIP PLUS INITIATIVE



Our scholars receive

- ✓ \$2,000 towards education expenses
- ✓ Internship opportunities
- ✓ Professional mentoring
- ✓ A great addition to a resume

El programa “PES Scholarship Plus Initiative” ofrece becas y experiencia en el mundo real a estudiantes universitarios interesados en carreras de ingeniería eléctrica y energética.

Nuestras becas para estudiantes universitarios de ingeniería pretenden alcanzar este objetivo atrayendo a este campo a estudiantes de ingeniería altamente cualificados. Estos estudiantes son los que algún día desarrollarán nuevas tecnologías ecológicas, construirán la red inteligente y cambiarán la forma en que generamos y utilizamos la energía.

La iniciativa IEEE PES Scholarship Plus apoya a estos prometedores estudiantes mediante ayuda financiera en la cada vez más costosa empresa de los estudios universitarios.

[Link: Scholarship Plus Initiative](#)

# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES SCHOLARSHIP PLUS INITIATIVE

A promotional graphic for the IEEE PES Scholarship Plus Initiative. It features a teal background with a white wireframe lightbulb on the right side. The text is in white and light blue. At the top left is the IEEE PES logo and the text 'IEEE Power & Energy Society SCHOLARSHIP PLUS INITIATIVE® Preparing the Next Generation of Power & Energy Engineers'. The main text reads 'LAST CHANCE! To Apply For The 2023-2024 IEEE PES Scholarship Plus Initiative'. Below this, a white box contains the text 'The application site closes on 30 June 2023.' At the bottom left is the website 'ee-scholarship.org'.

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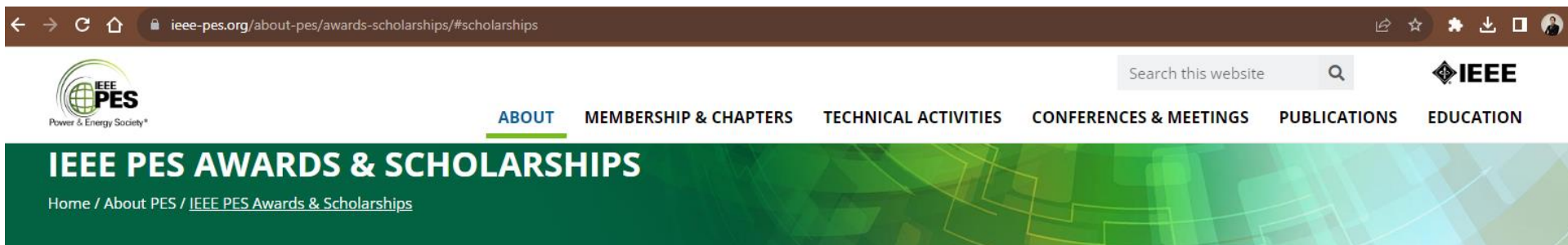
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[Link: Scholarship Plus Initiative](https://ee-scholarship.org)

# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES SCHOLARSHIP PLUS INITIATIVE



### Welcome to Awards & Scholarships

The IEEE Power & Energy Society awards and scholarship programs are dedicated to annually recognizing industry leaders and engineering students for their technical expertise and significant service contributions to society and to the power and energy industry.

**PES Awards Nomination Period: October - January**

- [PES Nomination & Application Website](#)
- [Effective Nomination Reference Guide](#)
- [Awards Committee Reference Manual](#)
- [PES Scholarship Opportunities](#)



ofrece becas y programas de apoyo a miembros universitarios y profesionales en el campo de la ingeniería eléctrica y energética.

Los programas de apoyo ayudan a traer talento a la industria, ayudando a que algún día los miembros construirán la energía que necesitamos hoy y en el futuro.

Para más información, contacta a estos programas de apoyo financiera en la página de inicio de la web.

# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES OUTSTANDING STUDENT SCHOLAR

### Objetivo:

Reconocer a los estudiantes miembros PES de todo el mundo que hayan elegido una trayectoria académica que les conduzca a una carrera en ingeniería eléctrica y energética. Los galardonados serán elegidos en función de sus logros académicos, su contribución a la satisfacción de las necesidades comunitarias y humanitarias y su liderazgo en la promoción de la participación de los estudiantes en el dentro de PES.

### Requisitos:

- Un IEEE PES Student Member (o cualquier grado de miembro)
- Un estudiante a tiempo completo que esté cursando un Máster en Ingeniería Eléctrica (MSEE)/Máster en Ingeniería (M.Eng) o una designación equivalente con especialización en ingeniería eléctrica. Las personas que estén cursando un doctorado no pueden optar a este premio.
- Debe estar asistiendo a una universidad o colegio que tenga una rama estudiantil IEEE activa que ofrezca un programa educativo sustantivo en ingeniería eléctrica.
- Comprometerse a trabajar en el campo de la ingeniería eléctrica y energética.

[Link: Outstanding Student Scholarship](#)

# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES STUDENT SCHOLAR



US\$10,000.



## Last Chance! To Nominate A Potential 2023 Outstanding Student Scholar.

### ELIGIBILITY REQUIREMENTS

- IEEE PES Student Member in good standing.
- A full-time student who is pursuing a Master's of Science degree in Electrical Engineering (MSEE)/Masters of Engineering (M.Eng).
- Must be attending a university or college that has an active IEEE Student Branch.
- Committed to working in the power and energy engineering career field.

**Submissions are due 31 January 2023.**

[ieee-pes.org/outstandingscholar](http://ieee-pes.org/outstandingscholar)



# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES MENTORING PROGRAM

### What is it?

IEEE PES Mentoring is a program that will provide a platform to seek and share valuable advice and knowledge for all PES members



Leadership



Critical Thinking



Networking



Career Development



[Link: Program Mentoring IEEE PES](#)

# PROGRAMAS DE APOYO PARA MIEMBROS

## IEEE PES MENTORING PROGRAM

IEEE PES Mentoring is a program



Leadership

### IEEE PES Mentoring Sign Up

PES Mentoring program will pair a mentee with a suitable mentor based on what they would want to learn from their mentor. It is applicable only to IEEE PES Members. Mentor and mentee are expected to commit to the program for 6 months for an enhanced experience. Program is expected to run from October,2022- March,2023. For More information: [Website](#)

deriancarlosdc@gmail.com [Cambiar de cuenta](#)

No compartido

\* Indica que la pregunta es obligatoria

First Name: \*

Tu respuesta

Last Name: \*

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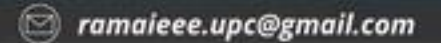
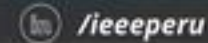
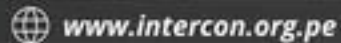
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**PhD. Juan López Amézquita**

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