IEEE Membership: A Magical Door to Professional Networking for Research Scholars

Presented By
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Outline

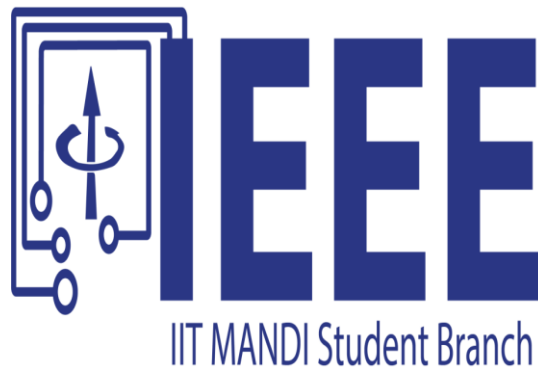What is IEEE

IEEE Awards & Travel Grants

IEEE Professional Network

IEEE Financial Support

IEEE STEM and EPICS

IEEE Member-Get-A-Member (MGM)

About: IEEE SB Chapter IIT Mandi

➢ We are a student-run organization at the IIT Mandi, our motives are to find ***ourselves*** and ***our passions***, to have ***fun and meet new people, gather new experiences, to learn industrial skills to enhance ourselves***, to learn about research and innovation in technology, to help our community and to get inspired to change the world!

IIT MANDI Student Branch

Found in 2014
Received Awards more than 35 till now
Received fund more than $15000 till now
IEEE Members 150+
IEEE Technical Societies 05
IEEE Affinity Group 02

Website: https://ieee.iitmandi.ac.in

IEEE SB Societies at IIT Mandi

IEEE Membership Benefits for Research Scholars

What is IEEE?

- The IEEE (Institute of Electrical and Electronics Engineers) describes itself as

  "The world's largest technical professional society promoting the development and application of electro technology and allied sciences for the benefit of humanity, the advancement of the profession, and the well-being of our members"

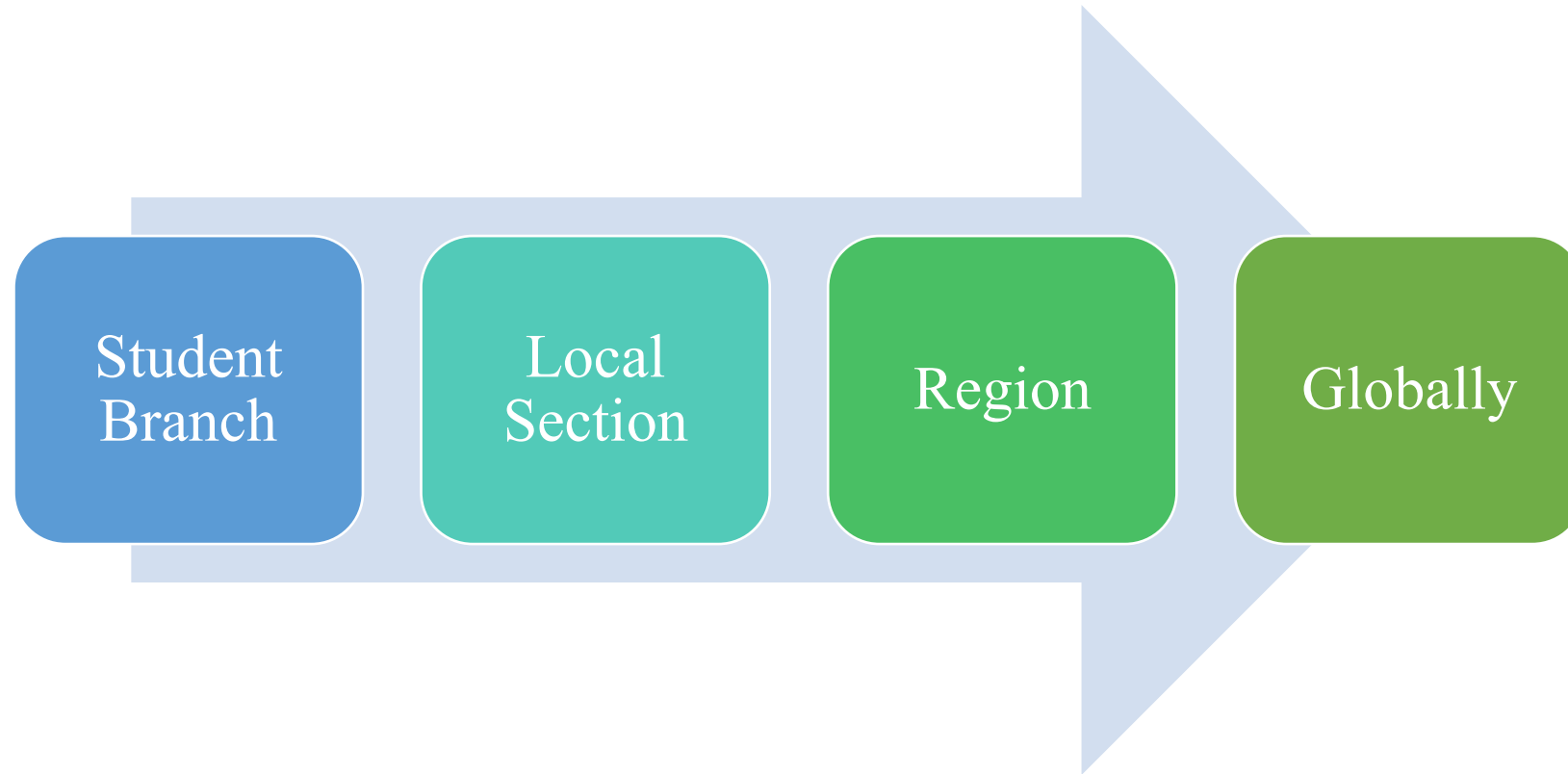| Knowledge ... | • staying current with the fast-changing world of technology |
| Community … | • unparalleled networking opportunities, and the buying power into low, members-only rates on benefits and services |
| Profession … | • empowering members to build their careers, and giving back to society |

IEEE Volunteering Opportunities

Student Branch → Local Section → Region → Globally

IEEE Society Membership

1. **Aerospace & Electronic Systems**
2. **Antennas & Propagation**
3. **Broadcast Technology**
4. **Circuits & Systems**
5. **Communications**
6. **Components Packaging, & Manufacturing Technology**
7. **Computational Intelligence (formerly Neural Networks)**
8. **Computer**
9. **Consumer Electronics**
10. **Control Systems**
11. **Dielectrics & Electrical Insulation**
12. **Education**
13. **Electromagnetic Compatibility**
14. **Electron Devices**
15. **Engineering in Medicine & Biology**
16. **Geoscience & Remote Sensing**
17. **Industrial Electronics**
18. **Industry Applications**
19. **Information Theory**
20. **Intelligent Transportation Systems**
21. **Instrumentation & Measurement**
22. **Magnetics**
23. **Microwave Theory & Techniques**
24. **Nuclear & Plasma Sciences**
25. **Oceanic Engineering**
26. **Photonics (formerly Lasers & Electro-Optics)**
27. **Power Electronics**
28. **Power & Energy**
29. **Product Safety Engineering**
30. **Professional Communication**
31. **Reliability**
32. **Robotics & Automation**
33. **Signal Processing**
34. **Society on Social Implications of Technology**
35. **Solid-State Circuits**
36. **Systems, Man, & Cybernetics**
37. **Technology and Engineering Management Society**
38. **Ultrasonics, Ferroelectrics, & Frequency Control**
39. **Vehicular Technology**

Benefits: Career Resources & Recognition

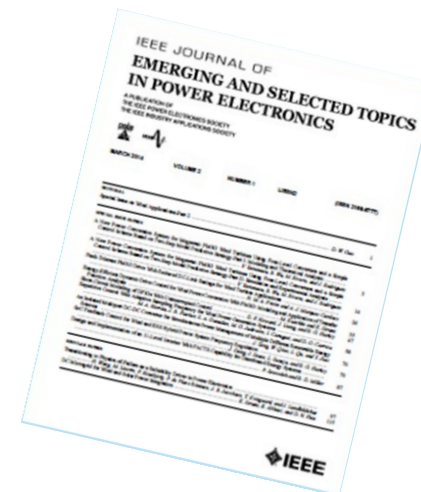|			
Awards	Career Webinars	eLearning Library	IEEE Continuing Education Providers Program
IEEE Job Site	IEEE Mentor Centre	IEEE Women in Engineering	Member Grade Elevation
My IEEE	Resume Lab	Student Awards, Scholarships, Fellowships	

Benefits: Keeping Technically Current

- Certified Software Development Professional
- e-Book Classics
- IEEE Member Digital Library (Access to)
- IEEE Potentials Magazine - Digital
- IEEE Potentials Magazine - Print
- IEEE Societies
- IEEE Spectrum Magazine
- IEEE Spectrum Magazine, digital delivery
- IEEE Standards
- IEEE WCET Certification Program
- IEEE Xplore Abstracts
- IEEE-USA eBooks
- IEEE.tv
- Proceedings of the IEEE

Benefits: Professional Networking

Discount on IEEE Conferences

GoogleApps@IEEE

IEEE e-mail Alias

IEEE member Networking

Local Meetings

Online Communities

Volunteering

Young Professionals (formerly GOLD)

Membership Benefits Include:

Conferences & Workshops - Online Access to all societies in which you are a member and sponsored conference proceedings. Registration discounts on conferences, symposiums and workshops

Easy access to books, tutorials, webinars, and videotapes, at discounted member rates.. or FREE!

Technical Committees- Active committees concentrate on such key areas of technology as:
- Power & Control Core Technologies,
- Power Conversion Systems and Components
- Motor Drives and Actuators
- Vehicle and Transportation Systems
- Sustainable Energy Systems
- High performance and Emerging Technologies
- Communication Energy Systems

IEEE Webinars

- IEEE has a variety of **live and on-demand webinars** available to help universities and technology organizations adapt their curriculums and research strategies to support distance learning and remote work environments.

- In addition, IEEE offers resources to help authors get published and share their research with the **technical community and partners with leading engineering publications, conferences, and media groups to sponsor webinars and virtual events on emerging technologies and trending fields of research.**

Free Webinars and Virtual Events from IEEE

September 3, 2020 | Tags: authorship workshops, digital events, distance learning, elearning, free webinar, On-Demand Webinar, virtual events, webinar

https://innovate.ieee.org/free-webinars-from-ieee/

IEEE Transactions and Magazines: PES

The Power & Energy Society (PES) is the oldest society in IEEE

IEEE Transactions on Energy Conversion

IEEE Transactions on Power Delivery

IEEE Transactions on Power Systems

IEEE Transactions on Sustainable Energy

IEEE Transactions on Smart Grid

IEEE Power & Energy Magazine

IEEE IAS Annual Conferences

- **IEEE IAS Annual Meeting**

- **Energy Conversion Congress and Exposition**

- Applied Power Electronics Conference

- Cement Industry Conference

- Industrial Energy Efficiency Workshop

- Industrial and Commercial Power Systems Conference

- Petroleum and Chemical Industry Conference

- Pulp, Paper and Forest Industries Conference

- Rural Electric Power Industry Conference

https://ias.ieee.org/

IEEE Xtreme: Coding Competitions

❑**IEEE Programming League**

❑**IEEE Xtreme** (often abbreviated as **Xtreme**) is an annual hackathon and competitive programming challenge in which teams of IEEE Student members, often supported by an IEEE Student Branch and proctored by an IEEE member, compete in a 24-hour time span against each other to solve a set of programming problems.

https://ieeextreme.org/

IEEE Provides Educational Resources

Trynano.org

Itunes University

IEEEXplore Digital Library

IEEE.tv

Try computing.org

IEEE E-learning Library

www.ieee.org/education

Get Involved with IEEE HAC/SIGHT!

- Benefits to engaging in humanitarian technology and sustainable development activities at IEEE:

    - Learn and develop professional skills through participation in projects and events

    - Connect with like-minded IEEE members around the world

    - Work toward a greater purpose on projects that align with your personal motivations and skill set

    - Make a real difference in your local community!

- Join with IEEE HAC/SIGHT to Get Involved!

    - Become an IEEE SIGHT member (add it to your IEEE student membership; it's free!)

    - Form a SIGHT Group at your IEEE Student Branch to assess needs in your local community, apply for financial resources, and implement a sustainable technological solution

    - Volunteer on a Committee

    - Check out the free, online resources from HAC/SIGHT on the IEEE Learning Network (ILN) and SIGHT website that equip participants with a basic understanding of humanitarian technology and sustainable development topics

    - Network with other members with similar interests through the HAC/SIGHT social media platforms

        - Humanitarian Activities Committee Facebook page

        - SIGHT Facebook group

- *Questions? Write to sight@ieee.org*

IEEE
Humanitarian Activities Committee

IEEE SIGHT
Special Interest Group on Humanitarian Technology

IEEE Awards, Travel Grants, Fellowships and Services

Financial Support

Members

❖ **Travel Grants**

❖ **Educational Scholarships**

❖ **Humanitarian Projects**

❖ **Conferences**

❖ **Awards**

Volunteers

❖ **Student Professional Awareness Activities**

❖ **Virtual and In-person Leadership Training**

❖ **Student Branch Activities/Projects**

❖ **Regional Conferences**

IEEE PES Awards

IEEE IAS Awards

Andrew W. Smith Outstanding Young Member Achievement Award

Distinguished Service Award

Outstanding Achievement Award

Outstanding Young Member Service Award

Kliman Award

IEEE IAS Students Awards

- Myron Zucker Programs Design Contest (generally for Final Year Graduate Students)

- Travel Award Myron Zucker Undergraduate Student Travel Grants are awarded to selected students each year

- Annual Meeting Travel Grant Award (AMTGP)

- IAS CMD Outstanding Member Award

- IAS CMD Student Robotics Demonstration Contest

- IAS CMD Student Thesis Contest

- Myron Zucker Student-Faculty Grant Program

- IAS CMD Humanitarian Contest

https://ias.ieee.org/chapters-membership/chapter-promotion-programs,-awards-and-contests.html

IEEE WiE Students Year Awards

- IEEE WiE Inspiring Member of the Year Award

- IEEE WiE Inspiring Student of the Year Award

- IEEE WiE Affinity Group of the Year Award

https://wie.ieee.org/ieee-wie-awards-program/

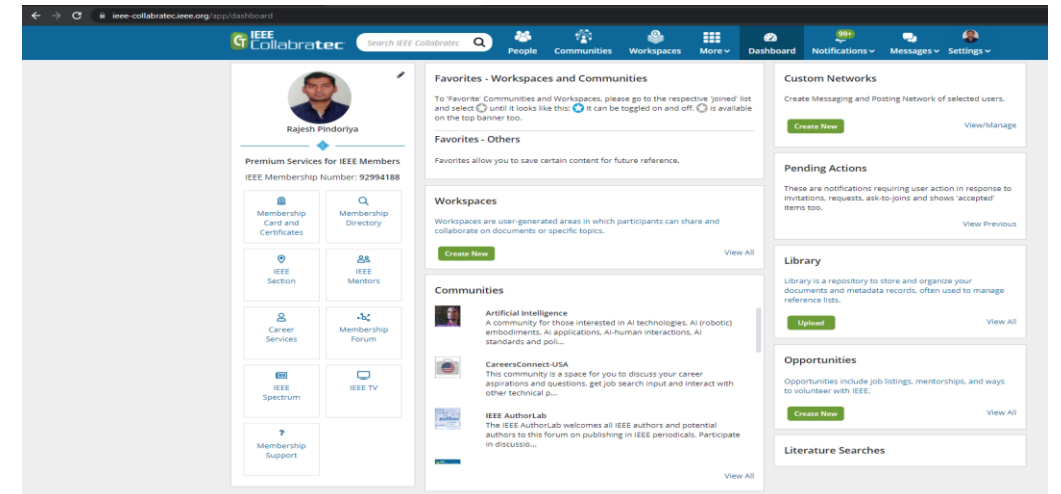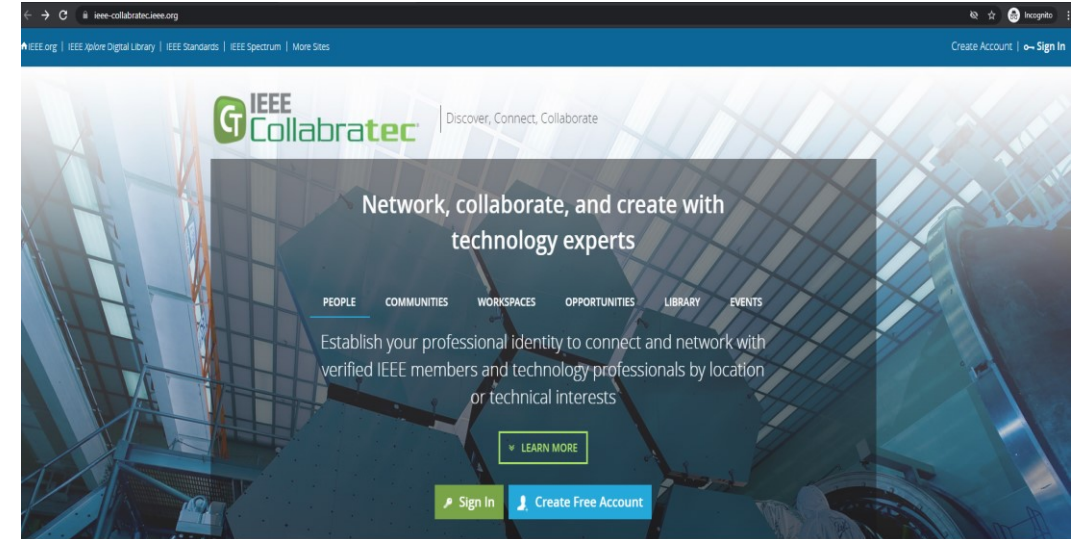# IEEE Student Project Grant

IEEE Standards Education Grants

❑ The IEEE Standards Education Committee (SEC) grants **US $500 for students (per project)** and **US $300 for faculty mentors** to help complete senior, undergraduate or graduate projects.

❑ Projects may be for design, capstone, development or research in which an industry technical standard(s) was applied to complete the project.

https://students.ieee.org/funding-opportunity/ieee-standards-education-student-grant/#:~:text=Fund%20Description%20%3A,must%20be%20an%20IEEE%20standard.
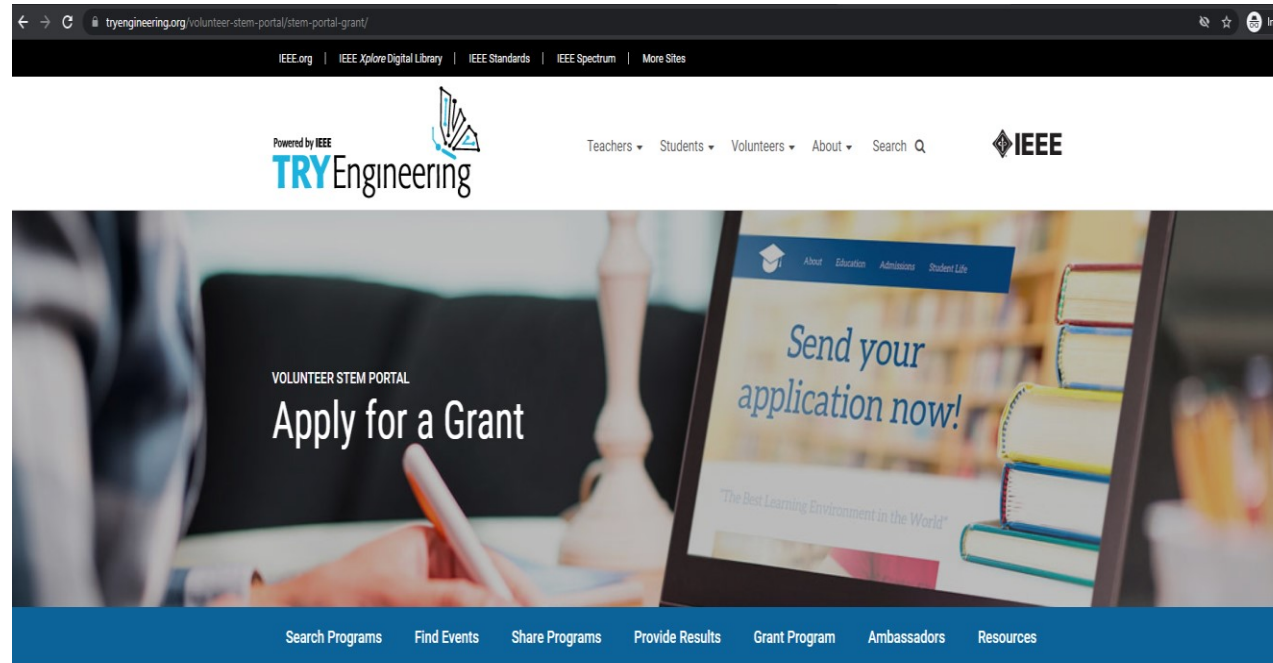
IEEE Job Site and IEEE Collabratec

IEEE Job Site: (https://jobs.ieee.org/)

IEEE Collabratec: https://ieee-collabratec.ieee.org/

IEEE STEM

STEM stand on Science, Technology, Engineering and Mathematics. https://transmitter.ieee.org/category/stem/

Education in these fields is critical to our future, drives innovation and progress.

Learn what inspires today's leading technologists, how they are fostering STEM engagement and where it is headed.

https://tryengineering.org/volunteer-stem-portal/stem-portal-grant/

IEEE STEM

Your first few year after graduation can be challenging enough without the burden of keeping abreast of new and changing technologies. IEEE has the means for you to remain technically current through award winning publications, technical societies and discounts on conferences.

IEEE Spectrum Magazine

e-Book Classics

IEEE Member Digital Library (Access to)

IEEE Xplore Abstracts

IEEE Societies*

Career Resources and Recognition

Over the course of your career you will be faced with many new and exciting challenges. Let IEEE help with those transitions with various Career Resources.

IEEE Mentoring

eLearning Library*

Career Webinars

IEEE Women in Engineering

The Institute Newsletter

Member Grade Elevation

Career Asset Manager

Professional Networking

Sharing ideas and information with other who share similar technical interests is vital to career success. Various professional networking tools at IEEE can help make these connections.

Local Meetings

IEEE e-mail Alias

Young Professionals (formerly GOLD)

Continuing Education

Access to on-line continuing education tools is vital to career success. These resources allow you to acquire new skills and advance your professional development.

IEEE Continuing Education Providers Program*

https://www.ieee.org/membership/benefits/index.html?byCareerPhase=Young+Professional&byCountry=IN

IEEE STEM

Discounts

IEEE members enjoy reduced rates on many proprietary products and services including IEEE books and eBooks, journals and articles, conferences and proceedings, standards, society memberships, and continuing education courses. In addition, members have access to a variety of affinity programs that offer savings.

IEEE Member Discounts offer substantial cost savings on a variety of products and services as a benefit of IEEE membership. To protect access to these member benefit programs, some links provided below may require signing in with an IEEE account. Learn how programs are selected and where programs are offered.

Discounts on IEEE Publications*   Wiley-IEEE Press Discounts*   Discount on IEEE Conference*

National Society Member Discount*   Wolfram

Humanitarian Programs

A large number of IEEE members take time to make a difference in the lives of individuals or entire communities. Volunteering is a rewarding way to develop interpersonal skills, create new professional relationships, and apply your expertise to help others.

Volunteering   Special Interest Group on Humanitarian Technology (SIGHT)

https://www.ieee.org/membership/benefits/index.html?byCareerPhase=Young+Professional&byCountry=IN

IEEE Funds, Awards and Fellowships Opportunities

https://students.ieee.org/funds-and-awards-introduction/

Search Funding and Scholarship Opportunities

IEEE is a large organization. Many opportunities for students exist that are not directly sponsored by Student Activities. To ensures that the brightest and most capable young minds have the resources they need to pursue a technologically-oriented education, we have collected information about grants, scholarships and other opportunities for students for you to search here.

https://students.ieee.org/funding/

IEEE Funds, Awards and Fellowships

IEEE R10 Postgraduate Research Paper Contest
https://sac.ieeer10.org/ieee-r10-postgraduate-research-paper-contest/

IEEE R10 Undergraduate Project Video Contest
https://sac.ieeer10.org/ieee-r10-undergraduate-project-video-contest/

IAS Chapter Awards and Contests

https://ias.ieee.org/chapters-membership/chapter-promotion-programs,-awards-and-contests.html

https://students.ieee.org/contests-for-students/

IEEE Student Project Grant cont…

The IEEE Foundation invites grant applications exclusively from IEEE organizational units for projects that address the pre-defined theme identified by the IEEE Foundation for each year.

❑**The IEEE Lasers & Electro-Optics Society**

❑**The IEEE Canadian Foundation**

❑**Darrel Chong Student Activity Award**

❑**Graduate Student Research Grants from Computation Intelligence Society** (CIS scholarship varies **from $1,000 to $4,000**)

https://students.ieee.org/the-darrel-chong-student-activity-award/

IEEE SIGHT Project Grant

- Food Security
- Infection Control Devices
- Information and Communications Technology (ICT)
- Medical Devices
- Personal Protective Equipment (PPE)
- Sustainable Power Sources
- Water, Sanitation, and Hygiene
- Other issues of pressing community need

Maximum funds US $5000 per project proposal

https://hac.ieee.org/funding-opportunities/covid-19-projects/

IEEE EPICS Project Grant

EPICS stands for **Engineering Projects in Community Service**. The program was founded in 1995 at <u>Purdue University</u>. It was created to meet a two-fold challenge: providing community service organizations with technology they need to improve and deliver services and providing undergraduate students with educational experiences to broaden their skills.

Workforce development

Students get equipped for the workforce by defining, designing, building, testing, and deploying engineering-based solutions to real life community challenges.

Professional skills

Students develop in-demand professional skills such as communication, collaboration, leadership, project management, and time management.

Non-profit support

Volunteers provide much-needed knowledge, skills, resources, and innovative solutions in partnering with community organizations on projects.

Advancing STEM

Through service-learning engineering curriculum, the program improves STEM education and inspires pre-university students to pursue STEM-based careers.

https://epics.ieee.org/about/

IEEE PELS Awards

PELS Ph.D. Thesis Talk Award (P3 Talk)

IEEE PELS Prize Letter Award

IEEE PELS Transactions Prize Paper Award

IEEE Transactions on Transportation Electrification Prize Paper Award

IEEE Modeling and Control Technical Achievement Award

IEEE PELS Best Student Branch Award

https://www.ieee-pels.org/awards

Compete for recognition and prizes!

1. Member Get a Member (MGM)

Recruit new IEEE Students by sharing your experience with your friends and colleagues. You can earn awards for you and your local IEEE Student Branch!

2. IEEE Into Focus Photo Contest

Share your IEEE photos each month for a chance to be featured in IEEE promotional materials and win great prizes!

3. Gift of Membership

Holiday or birthday coming up for someone you love? Give them the gift of IEEE Student Membership.

4. IEEE Day

Celebrate with all IEEE Students worldwide, every year, in October. Participate in local events, collaborate on a project and share your photos with us for a chance to win!

IEEE Member-Get-A-Member (MGM) Referral Program

The IEEE MGM program is your opportunity to share the value of IEEE membership with your friends and colleagues. Not only can you take pride in supporting IEEE, but you can also earn awards for you and your local IEEE organizational unit (Section, student branch, etc.) on qualifying referrals who join.

Professional members can earn:

- **US$15** for each Professional member recruited
- **US$5** for each Professional member recruited to e-Membership (offered in developing nations only)
- The maximum amount a member can earn during the membership year is a credit award of **US$90.**

Student members can earn:

- **US$2** for each Student or Graduate Student member recruited
- **US$15** for each Professional member recruited
- **US$5** for each Professional member recruited to e-Membership (offered in developing nations only)
- The maximum amount a member can earn during the membership year is a credit award of **US$90.**

https://www.ieee.org/membership/join/member-get-a-member.html

Important Information for IEEE SB Chapters and Societies

Recognize your Student Branch

Your Student Branch can be recognized for several awards for their educational, technical, projects and professional activities including:

- **Larry K. Wilson Regional Student Activities Award**

- **IEEE Regional Exemplary Student Branch Award**

- **IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award**

- **The Darrel Chong Student Activity Award**

IEEE
students

Student Branch Reporting

- Student Branch Reporting serves as a valuable historical document to aid future Student Branch leaders in their yearly planning.

- It includes the Branch finances, so it is important that the Student Branch Treasurer is involved in the preparation of the report.

- Be sure to involve your Branch Counselor as he/she will be required to approve the report before it is sent to the IEEE Operations Center.

- It's just 3 easy steps to report your Student Branch activities and newly elected officers yearly (bookmark these links!):

1. Officers: https://officers.vtools.ieee.org/
2. Annual Plan: https://sbr.vtools.ieee.org/
3. Meetings/Events: https://events.vtools.ieee.org/

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Benefits of Reporting Activities

- Reporting demonstrates proof of meetings, events, and keeps IEEE informed your Branch leadership information.

- A record of all activities will be housed in our database for historical purposes and can be used for awards, etc.

Note:

- An incentive allotment of US$100 is given if a Student Branch has 50 or more members. If a Student Branch has fewer than 50 members, the incentive is US$50.

- In addition, an incentive rebate of US$2 per Student or Graduate Student member (based on membership statistics as of 31 December of the previous year) is also given for reports received prior to the deadline.

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Students Resources

- ✓ Branch Formations
- ✓ Branch Calendar
- ✓ Web Hosting for Branches
- ✓ Membership Development Kits (Branch Chairs only)
- ✓ Funding
- ✓ Branding and Visual Identity
- ✓ Awards
- ✓ Funding
- ✓ SPA Program
- ✓ IEEE Xtreme

- Volunteer Training - [Branch Leadership Training](#)

- Video Training - [Best Practices for Student Branches](#)

- Website - students.ieee.org

- Visual Identity - [Resources and Toolkit](#)

- Email: student-services@ieee.org

IEEE
students

Connect with us

Global Student Exchange Community

https://ieee-collabratec.ieee.org/

IEEE Student Channel

https://ieeetv.ieee.org/

IEEE Students

www.facebook/com/IEEESTUDENTS

IEEE Membership Promotion Codes

Free first year IAS-PES Membership for Active IEEE (both higher grade and student grade) Members:

For IAS
Promotion Code: **IASLRP**

For PES
Promotion Code: **19PESSTNWF**

Free membership
IEEE SIGHT
IEEE WiE

Join IEEE

- Join the World's Largest Professional Association
You make a difference when you join IEEE
www.ieee.org

Thank you so much for your attentions
Q & A