IEEE >>>
The Force Behind Innovation

IEEE
Advancing Technology
for Humanity

What + If = IEEE

Inventive minds utilize IEEE intellectual resources to improve what matters most in our lives.

The Fuel of IEEE: Mission & Vision

IEEE is where forward-thinking technology professionals come together—in the spirit of collaboration—to discover the next technological innovation, develop international standards, and form communities to share research, education, and humanitarian goals.

- **Our Mission**
  The core purpose of IEEE is to foster technological innovation and excellence for the benefit of humanity.

- **Our Vision**
  IEEE will be essential to the global technical community and to technical professionals everywhere; and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.
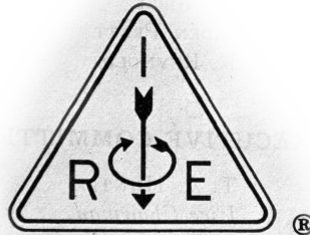
◈ IEEE

The Founding of IEEE

1884 .... 1912 .... 1963 .... **TODAY**

AIEE
American Institute
of Electrical Engineers

IRE
Institute of Radio
Engineers

IEEE

*Advancing Technology
for Humanity*

IEEE embodies the visions of its founders—applying them to the challenges of today and tomorrow.

Learn more: ieee.org/about/ieee-history.html

The History of IEEE

Our story begins with the spirit of collaboration to light up and connect the world…and continues today, as we find innovative solutions to global challenges.

Learn more: ieee.org/about/ieee-history.html

IEEE

The IEEE Promise

The IEEE brand is an authentic reflection of our unflagging dedication to:

- Maintain our leadership as a trusted source of advancements and applications of technology

- Create standards, innovative research venues, and a global technology forum

- Provide opportunities to conquer technical challenges with imagination

- Enable today's innovators to improve tomorrow's quality of life

IEEE IS RECOGNIZED AS:

- A leader in the influence of the global technology community
- A resource to the technology industry within various disciplines for the engineering community
- A supporter of innovation with new technology standards and publications that empower tomorrow's advancements

Learn more: brand-experience.ieee.org/ieee-brand/brand-overview/

◆IEEE

IEEE Today at a Glance

Global Reach

400,000+
Members
60% of whom are from outside the US

39
Technical Societies
and **seven** Technical Councils

160+
Countries
across **10** geographic Regions

Technical Breadth

1,600+
Annual Conferences

in 96 countries while contributing over 3.6 million total conference papers to IEEE *Xplore®* since 1936

5,000,000+
Technical Documents

via IEEE *Xplore* digital library, with more than **15 million** downloads each month

200+
Top-cited Periodicals

IEEE journals, conference proceedings, and select content dating back to 1884

1,200+
Active Standards

and **900+** more in development

Learn more: **ieee.org/about/at-a-glance.html**

◈IEEE

Technical Expertise that is Broad and Deep

IEEE provides thought leadership and resources for the global tech community.

- **Aerospace & Defense**
- **Biomedical Engineering**
- **Broadcasting**
- **Circuits**
- **Communications**
- **Computer Science**
- **Control and Automation**
- **Cyber Security**

- **Electronics**
- **Environment**
- **Industrial systems**
- **Information Technology**
- **Internet of Things**
- **Life Sciences**
- **Nanotechnology**
- **Optics**

- **Power and Energy**
- **Robotics and AI**
- **Semiconductors**
- **Smart Cities**
- **Smart Grid**
- **Sustainable Energy**
- **Transportation and Vehicles**
- **And more…**

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Top Organizations Innovate with IEEE

Whenever technology happens, IEEE is there.

All Top 5
Communications Equipment Companies Worldwide

8 of Top 10
Telecommunication Companies Worldwide

9 of Top 10
Computer Hardware Companies Worldwide

27 of Top 30
Semiconductor Companies Worldwide

15 of Top 20
Aerospace and Defense Companies Worldwide

7 of Top 10
Automobile Manufacturers Worldwide

99 of Top 100
Engineering and Technology Universities Worldwide

All Top 100
Engineering Universities in the United States

IEEE

The World Benefits from IEEE Information

Technology leaders rely on IEEE publications and tutorials.

FIVE NEW IN 2020 and 2021

IEEE Journals, Transactions, and Magazines — Top-cited in the fields of electrical engineering and computing, more than 200 publications.

3.6+ MILLION CONFERENCE PAPERS

IEEE Conference Proceedings — Cutting-edge papers presented at IEEE conferences globally.

SMART GRID, NESC®, 802

IEEE Standards— Quality product and technology standards used by worldwide industries and companies to ensure safety, drive technology, and develop markets.

MORE COURSES, NEW SERIES

IEEE Educational Courses — Hundreds of course hours in core and emerging technologies.

5,000+ EBOOKS

eBooks Collections — Eight eBooks collections now available, 5,000+ eBooks covering technology, engineering, computing, and more.

◆IEEE

Expanding Global Outreach

New technology connections

IEEE collaborations around the world inspire innovation for those who develop and deliver technology solutions

New Markets

Local Programs

Product Innovation

Global means doing what is needed **locally**, everywhere.

◆IEEE

Benefiting the Global Society

Advancing technology for humanity

INTERNATIONAL COLLABORATION ACROSS THE ETHICS LANDSCAPE:

- IEEE Global Public Policy Committee
- IEEE TechEthics™
- The Global Initiative for Ethical Considerations in the Design of Autonomous Systems
- The Society on Social Implications of Technology (SSIT)

PROGRAM HIGHLIGHT:

Virtual Event Series:
New Technologies, Ethics, and Policy Engagement for Sustainable Development

- Created in collaboration with UN Dept. of Economic & Social Affairs
- Facilitates the sharing of technology solutions to promote substantive discussions among government officials, technologists, legal experts, ethicists, social scientists, and others
- Each event focuses on a theme related to the UN SDGs
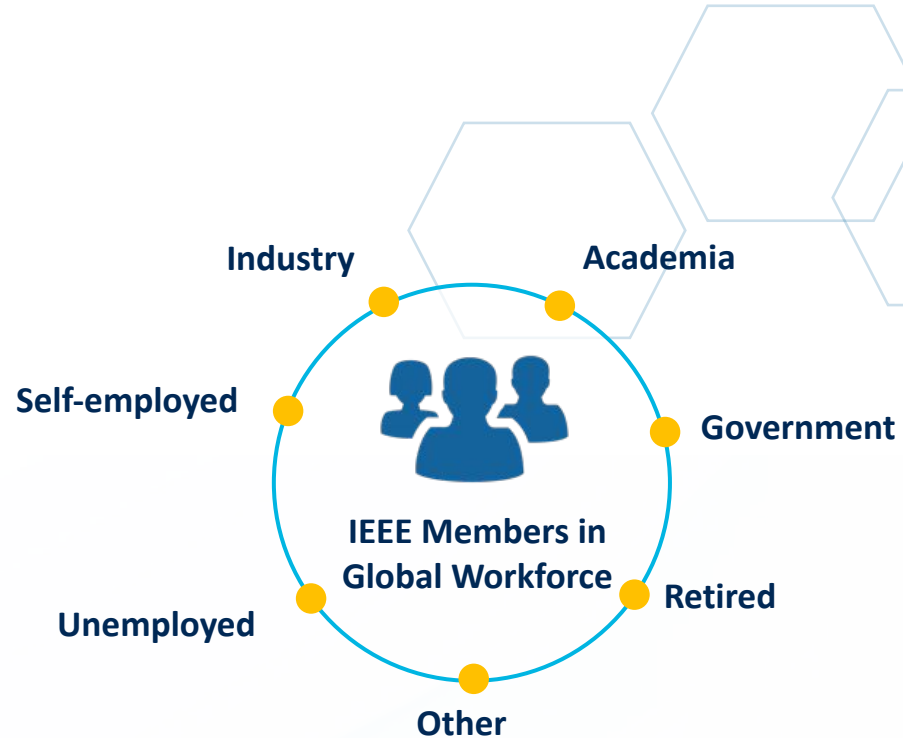- Engaging relevant IEEE collaborators for each event

IEEE

Membership

IEEE exists because of its members, and members excel because of IEEE. We help our members grow and achieve across global boundaries.

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IEEE Members

IEEE members have a commitment to continuous improvement.

They are engineering, computing, and technology professionals from around the globe:

- Professional membership is open to individuals who give evidence of competence in an IEEE designated field.

- A Student/Graduate Student member must carry at least 50% of a normal full-time academic program as a registered undergraduate or graduate student.
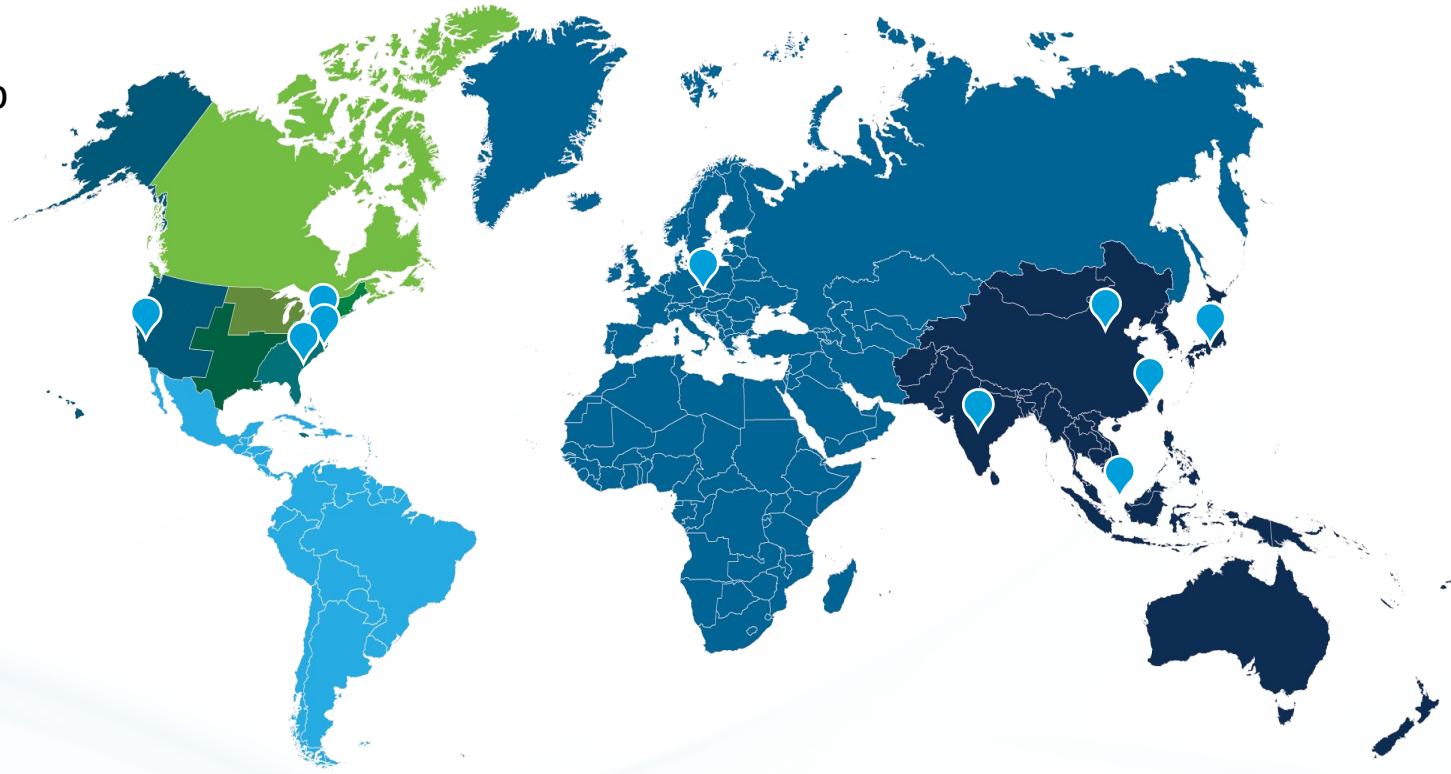
Industry

Academia

Self-employed

Government

IEEE Members in Global Workforce

Unemployed

Retired

Other

IEEE

IEEE Membership By Region

Total Membership

+400,000K

across **TEN** IEEE Regions

Region **1**	Region **6**
Region **2**	Region **7**
Region **3**	Region **8**
Region **4**	Region **9**
Region **5**	Region **10**

IEEE Offices

Benefits of Membership

IEEE members stay current in the technology profession, connect with peers, and invest in career advancement.

Access vital **technical information and research**

Connect to the profession with **valuable networking opportunities**

Explore **education resources and career development tools**

Participate in **local activities**

Receive **discounts on IEEE products** and other services

Find ways to **contribute to the community**

Plus, get **tailored benefits by joining an IEEE Society.**

Learn more: ieee.org/join

IEEE

Member Resources: Technical Content

Access quality information

IEEE *Xplore*®
Explore research from IEEE journals, magazines, and conference proceedings. **($)**

IEEE Learning Network
High-quality, peer-reviewed online courses in relevant topics. **($)**

Conferences
Learn about new topics and trends from leading experts, and network with other professionals. **($)**

IEEE Author Center
Publish your research in a high-quality publication and help advance your scientific field. **($) (+)**

eBook Classics
Get over 350 classic eBook titles from the IEEE Press collection.

IEEE Standards
Search for published standards and find related products and resources. **($)**

IEEE.tv
View videos and live broadcasts covering IEEE activities from around the globe.

IEEE Societies and Technical Councils
Join specialized groups matched to your technical interests. **($)**

IEEE *DataPort*
Access an easily accessible repository of datasets and data analysis tools.

IEEE *Spectrum* Magazine
Stay informed about major trends and developments in technology, engineering, and science.

Proceedings of the IEEE
The leading journal for in-depth tutorials and coverage of technical developments.

IEEE *Potentials* Magazine
Explore career strategies and important technical trends geared to young professionals.

$ - Discounted price for IEEE members
+ - Additional fee

Learn more: ieee.org/start

Member Resources: Networking

Explore networking opportunities

Conferences Attend conferences to connect with other like-minded professionals. **($)**	**IEEE Collabratec®** Connect and collaborate with other IEEE members in IEEE's online networking platform.	**Volunteering opportunities** Get involved in IEEE activities at a local and global level and give back to your profession.
Local meetings and events Meet and socialize with members and volunteers in your Section.	**IEEE Societies and Technical Councils** Join specialized communities matched by your technical interest. **($)**	**Women in Engineering (WIE)** Become a part of the influential IEEE member group promoting women engineers and scientists. **(+)**
Young Professionals Connect with recent graduates interested in expanding their global network, connecting with peers locally, and giving back to their communities.		

$ - Discounted price for IEEE members
+ - Additional fee

IEEE

Member Resources: Education & Career

Expand your learning and find the right career path

IEEE Credentialing Program
Guarantee that your education program offers the relevant content that engineers need to stay ahead in their fields. **(+)**

IEEE Learning Network (ILN)
ILN provides hundreds of hours of educational content from across IEEE on a variety of topics, all in one place. **($)**

IEEE Job Site
Find job postings by more than 4,000 leading corporations and organizations.

IEEE Mentoring Program
An online program that facilitates the matching of IEEE members for the purpose of establishing a mentoring partnership.

IEEE.tv
Access on-demand programs on technical topics including conference coverage and live streaming events.

Career webinars
Choose from more than 180 archived webinars and download supporting slides and documents where available.

IEEE-USA
The career and public policy interest group for IEEE members in the USA providing career tools, resources, and government relations programs.

IEEE Consultants Network
Connect to a global consultant's network by creating a profile or searching for a consultant. **(+)**

IEEE Innovation at Work
Access articles and free virtual events on cutting edge technical topics.

$ - Discounted price for IEEE members
+ - Additional fee

Learn more: ieee.org/start

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Member Resources: Local Activities

Find local resources and activities

Through your Region and Section
Upon joining, you were assigned to a local IEEE group based on your geographic location. This information can be found in your IEEE Account, in IEEE Collabratec, or on your IEEE membership card.

Access your local volunteers in IEEE Collabratec®
Contact IEEE volunteers in your Section to find out about events near you.

Search for local events
Use the IEEE event finder to discover meetings and events hosted both locally and globally.

Learn more: ieee.org/start

◆IEEE

Member Resources: Discounts

Take advantage of exclusive IEEE Member discounts

Conferences
Save up to 50% on conference registration fees ranging from US$300 to US$1,500. **($)**

IEEE *Xplore* articles
Save nearly 50% off single article purchases from IEEE *Xplore*, the largest library of electrical engineering, computer science, and electronics literature. **($)**

Wiley Books
Receive up to 35% off titles from Wiley-IEEE Press, including bioengineering, power and energy, communication technologies, and other growing areas of research. **($)**

IEEE Societies
Enjoy reduced pricing and additional fees when joining technical Societies or special interest groups. **($)**

Insurance
Participate in insurance programs ranging from term life, other life, health plans, professional liability, and auto and home (available in specified geographic areas). **($)**

Member Discounts Marketplace
Access a changing variety of time-sensitive, exclusive discounts on products and services. **($)**

IEEE Product Discounts
Get group pricing on highly-rated products and services to support members at home and in their professional lives. **($)**

IEEE Learning Network
Enjoy discounted pricing on a wide range of relevant courses. **($)**

$ - Discounted price for IEEE members

Learn more: ieee.org/start

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Member Resources: Contribute to the Community

Give back to the global or local community:

IEEE Foundation Support IEEE programs that improve access to technology, enhance technological literacy and technical education, and the benefit IEEE professional community.	**IEEE Smart Village** Be a part of the initiative that provides access to electricity, creates opportunity, and improves lives in remote communities around the world.	**IEEE SIGHT** Join the Special Interest Group on Humanitarian Technology (SIGHT) program, where IEEE volunteers around the globe partner with underserved communities to leverage technology for sustainable development.
EPICS in IEEE Help empower students to work with local service organizations and apply technical knowledge to implement solutions for a community's unique challenges.	**IEEE Eta Kappa Nu** The honor society of IEEE, Eta Kappa Nu promotes excellence in the profession and in education with ideals of Scholarship, Character, and Attitude.	

Lighting up the Land of Monks
Lingshed Monastery India 2016

IEEE smart village
Empowering Off-Grid Communities

GHE

IEEE Smart Village &
Global Himalayan Expedition

Learn more: ieee.org/start

◆IEEE

Member Resources: IEEE App

Learn more: app.ieee.org

Communities

Information sharing is a cornerstone of productive collaboration.
IEEE believes that even small ideas can develop into towering solutions.

◆IEEE

Interaction is Key at IEEE

342 Sections in TEN geographic Regions worldwide

Self-organizing communities:
cross- and inter-disciplinary networking via

- **2,562** Professional Chapters that unite local members with similar technical interests

- **39** Technical Societies

- More than **107,000** Student members

- **3,485** Student Branches at colleges and universities in **100** countries

- **2,877** Student Branch Chapters of IEEE Technical Societies

- **580** affinity groups and growing, including IEEE Young Professionals (YP), IEEE-USA Consultant's Network, IEEE Life Members (LM), IEEE Entrepreneurship, and IEEE Women in Engineering (WIE)

Data current as of June 2021

Learn more: ieee.org/about/at-a-glance.html

◈IEEE

IEEE Societies

IEEE Societies allow members to network with colleagues and collaborate on projects with leading experts—while taking advantage of specialized opportunities.

IEEE Aerospace and Electronic Systems Society (AESS)

IEEE Antennas and Propagation Society (APS)

IEEE Broadcast Technology Society (BTS)

IEEE Circuits and Systems Society (CAS)

IEEE Communications Society (ComSoc)

IEEE Computational Intelligence Society (CIS)

IEEE Computer Society (CS)

IEEE Consumer Technology Society (CTSoc)

IEEE Control Systems Society (CSS)

IEEE Dielectrics and Electrical Insulation Society (DEIS)

IEEE Education Society (EdSoc)

IEEE Electromagnetic Compatibility Society (EMC-S)

IEEE Electron Devices Society (EDS)

IEEE Electronics Packaging Society (EPS)

IEEE Engineering in Medicine and Biology Society (EMBS)

IEEE Geoscience and Remote Sensing Society (GRSS)

IEEE Industrial Electronics Society (IES)

IEEE Industry Applications Society (IAS)

IEEE Information Theory Society (ITS)

IEEE Instrumentation and Measurement Society (IMS)

IEEE Intelligent Transportation Systems Society (ITSS)

IEEE Magnetics Society

IEEE Microwave Theory and Techniques Society (MTT-S)

IEEE Nuclear and Plasma Sciences Society (NPSS)

IEEE Oceanic Engineering Society (OES)

IEEE Photonics Society

IEEE Power Electronics Society (PELS)

IEEE Power & Energy Society (PES)

IEEE Product Safety Engineering Society (PSES)

IEEE Professional Communication Society (PCS)

IEEE Reliability Society (RS)

IEEE Robotics and Automation Society (RAS)

IEEE Signal Processing Society (SPS)

IEEE Society on Social Implications of Technology (SSIT)

IEEE Solid-State Circuits Society (SSCS)

IEEE Systems, Man, and Cybernetics Society (SMC)

IEEE Technology and Engineering Management Society (TEMS)

IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society (UFFC)

IEEE Vehicular Technology Society (VTS)

Learn more: ieee.org/communities/societies

IEEE Technical Councils

Technical Councils are groups of Societies working together in broad areas of technology.

IEEE Technical Councils are usually focused on a single technology area and the opportunities stemming from it.

IEEE Societies collaborate on:
- technical meetings
- publishing research
- promoting educational activities
- developing standards

Learn more: ieee.org/communities/societies/about-technical-councils.html

◆IEEE

IEEE Future Directions

Fostering partnerships among Societies, Councils, and industry to find the best knowledge, resources, and opportunities in emerging technologies within IEEE.

MATURITY LEVEL

NEW

GRADUATED

IEEE BLOCKCHAIN

IEEE DigitalReality

IEEE QUANTUM

IEEE Future NETWORKS

IEEE SMARTGRID

IEEE SOFTWARE DEFINED NETWORKS

IEEE SUSTAINABLEICT

IEEE TRANSPORTATION ELECTRIFICATION COMMUNITY

IEEE Internet of Things

IEEE lifesciences

IEEE rebooting COMPUTING

IEEE Smart Cities

IEEE BigData

IEEE brain

IEEE CLOUD COMPUTING

IEEE CYBER SECURITY

IEEE FUTURE DIRECTIONS

Learn more: ieee.org/about/technologies.html

IEEE

IEEE Collabratec® | Discover, Connect, Collaborate

Network, collaborate, and create with technology experts.

IEEE Collabratec is an online community where technology professionals can:

- Meet technology professionals

- Join and participate in communities

- Embrace career opportunities

- Work together in virtual workspaces

- Manage your personal library

- Discover IEEE events

Learn more: collabratec.ieee.org

◆IEEE

IEEE Entrepreneurship

The engineering-driven startup community within IEEE.

The IEEE Entrepreneurship community is at the forefront of turning ideas into successful businesses. There are three main ways to get involved:

The IEEE Collabratec® Entrepreneurship Community brings together individuals who have a passion for all things entrepreneurial.

IEEE Entrepreneurship Events are designed to inspire tech startup founders, investors, and service providers.

IEEE Entrepreneurship Portal is your online resource for growing your ideas and finding IEEE activity relevant to startup companies and founders.

Learn more: **entrepreneurship.ieee.org**

IEEE Innovation Nation

For every idea that needs a platform to showcase its worth, IEEE Innovation Nation is the competition for it.

IEEE INNOVATION NATION

Lack of guidance or finances should never be the reason to shut down the entrepreneur inside you. IEEE Innovation Nation is organized to address this by providing resources to take your idea or product to the next level:

TRAINING
Get equipped with necessary skills to run a company

MENTORING
Get guidance from experts in the field

FINANCES
Back your ideas and execution skills with finances

The IEEE Innovation Nation initiative will be carried out in the following areas this year:

IEEE INNOVATION NATION
SRI LANKA

IEEE INNOVATION NATION
MALAYSIA

IEEE INNOVATION NATION
BOSNIA & HERZEGOVINA

Learn more: in.ieee.org

IEEE

Local Communities

IEEE is divided into ten worldwide geographic regions—local communities are key to making it all come together.

- Within the regions, there are local sections, chapters, and affinity groups

- Local communities conduct over 10,000 meetings a year

- Provide unique opportunities for members to:
  - Attend technical presentations
  - Create strong peer-to-peer connections
  - Explore their technical interests as a community
  - Network locally and globally
  - Participate in leadership opportunities

Total Membership **+400,000** across **TEN** IEEE Regions

Region 1
Region 6
Region 2
Region 7
Region 3
Region 8
Region 4
Region 9
Region 5
Region 10

IEEE Offices

Learn more: ieee.org/communities

◆IEEE

Student Branches

IEEE Student branches are at the core of student membership, providing:

- Networking opportunities in students' areas of interest and future professions

- Learning and social experiences

- Collaboration opportunities with IEEE colleagues and member groups

Spotlight on IEEE University Partnership Program

Collaborative community at the top technical schools in the U.S., China, and India.

Supports activities that challenge students to develop leadership, teamwork, networking, research, and communication skills while learning firsthand how the IEEE serves its members, profession, communities, and humanity worldwide.

Learn more: students.ieee.org

Membership

Communities

Conferences

Publications

Standards

Education

Career Resources

Humanitarian and
Philanthropic Goals

Awards

Industry

Conferences

IEEE creates collaborative platforms for tomorrow's innovators and authors. Because innovation begins with a big idea and IEEE.

◆IEEE

IEEE Conferences

Building relationships and exploring ideas are on the agenda at every IEEE conference.

- IEEE sponsors more than **1,600 annual technical conferences** around the world.
    - In 2020, IEEE published over **205,000 conference papers**.
    - IEEE partners with over **1,300 institutions** around the world each year to bring research forward.
- Offers professional expertise in virtual and hybrid formats as well as the traditional face-to-face formats
- Provides many resources for authors, speakers, conference organizers, students, and volunteers.

Learn more: ieee.org/conferences/

Popular Conferences

When an idea sparks, technology professionals turn to the IEEE community as a forum and testing ground.

- IEEE PES T&D Conference & Exposition (PES T&D)

- International Microwave Symposium (IMS)

- Supercomputing – International Conference for High Performance Computing, Networking, Storage, and Analysis (SC)

- IEEE International Conference on Blockchain and Cryptocurrency (ICBC)

- International Conference on Artificial Intelligence and Big Data (ICAIBD)

- Global Internet of Things Summit (GloTS)

- IEEE International Conference on Cyber Security and Cloud Computing (CSCloud)

- IEEE International Conference on Robotics and Automation (ICRA)

- IEEE EUROCON - International Conference on Smart Technologies

- IEEE AFRICON

- World Symposium on Artificial Intelligence (WSAI)

Learn more: ieee.org/conferences/

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Conference Proceedings

IEEE produces cutting-edge conference proceedings that are recognized by academia and industry worldwide.

- IEEE provides a forum for authors and speakers to present their work at various annual conferences worldwide.

- Papers submitted for publication are peer reviewed before they are published, ensuring a high-quality final product.

- All papers are published in IEEE *Xplore*® digital library, usually six weeks after the conference.

IEEE *Xplore*®
Digital Library

Call for papers
IEEE continuously updates its database with opportunities to submit abstracts and papers.

IEEE

IEEE Meetings, Conferences & Events (MCE)

Find everything you need to know about organizing an IEEE event.

IEEE provides resources and support for the conference community, IEEE volunteers, and conference sponsors:

- Conference planning basics
- COVID-19 pandemic event resources
- Virtual and hybrid event guidance
- IEEE sponsorship
- IEEE Conference Application
- Finance & contracts
- Technical program development
- Audience development
- Tools & resource finder

Learn more: ieeemce.org

Virtual Events Team

The IEEE MCE team has expertise in online, virtual, and digital event mediums.

Virtual Event Series

- Designing programs for the online experience
- Audience engagement: techniques and practices
- Keynote prep/Green Room management
- Exhibitor/Sponsor innovations and management

Digital Event Production

- Live-day event production
- On-demand/hybrid productions
- Live sessions, panel discussions, and moderation
- Moderated chat and live Q&A with audience

Event Consultation

- Innovations in program, exhibit, and sponsor design
- Consultation in digital platform and services
- Tricks and tips for networking and engagement
- Collaboration with event organizers

Hybrid Production

- Hybrid program development for a seamless audience experience
- Filmed, produced, and edited assets
- Highlight videos
- Sizzles and interviews

"Virtual events allow us to break through the constraints of time and place to enrich and extend a live gathering"
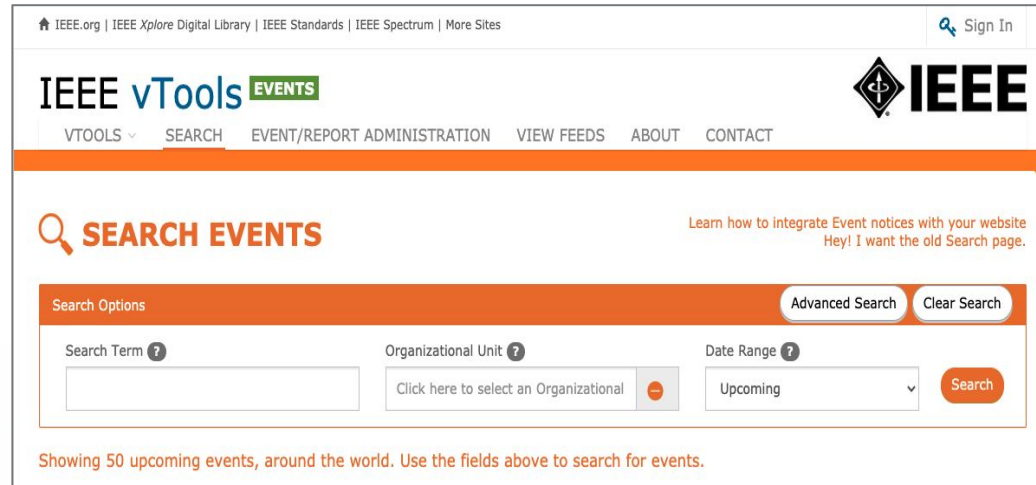Marie Hunter, Senior Director, MCE

Local Meetings and Events

IEEE provides its members and volunteers with year-round networking opportunities.

Local meetings and events are hosted by:

- IEEE Sections
- IEEE Chapters
- Student branches
- Other regional governing bodies

Learn more: meetings.vtools.ieee.org/events/search

Membership

Communities

Conferences

Publications

Standards

Education

Career Resources

Humanitarian and
Philanthropic Goals

Awards

Industry

Publications

IEEE research advances technical theory that the world puts into practice. People expect technology to solve tomorrow's problems. So does IEEE.

IEEE

IEEE Publications

The technology landscape is constantly evolving—
stay current on the latest breakthroughs *with IEEE.*

- IEEE's publications provide coverage of the latest technical developments that shape the world.
  - Each year, IEEE introduces new publications to address growing areas of research, such as cloud computing, renewable energy, cognitive computing, 5G, sustainable computing, autonomous vehicles, and more.

- IEEE gives authors flexibility with open access and hybrid journals

1 million+ articles from 200 Journal and Magazine titles

3.6 million+ Conference papers

1,200 New and revised Standards

5,000+ eBooks titles

1,000+ eLearning titles

**PLUS, NEW TOOLS TO DISCOVER THEM ALL**

◆IEEE

Why IEEE?

Quality makes an impact—the top-cited publications in the field for IEEE

IEEE Publishes:

- **27 of the top 30** journals in Electrical and Electronic Engineering
- **21 of the top 25** journals in Telecommunications
- **8 of the top 10** journals in Automation & Control Systems
- **7 of the top 10** journals in Computer Science—Artificial Intelligence
- **7 of the top 10** journals in Computer Science—Hardware & Architecture
- **7 of the top 10** journals in Computer Science—Information Systems

IEEE Journals are:

#1 in Automation and Control, Computer Science—Artificial Intelligence, Computer Science—Computer Hardware & Architecture, Computer Science—Cybernetics, Computer Science—Information Systems, Imaging Science, Instruments and Instrumentation, Medical Informatics, Remote Sensing, and Telecommunications
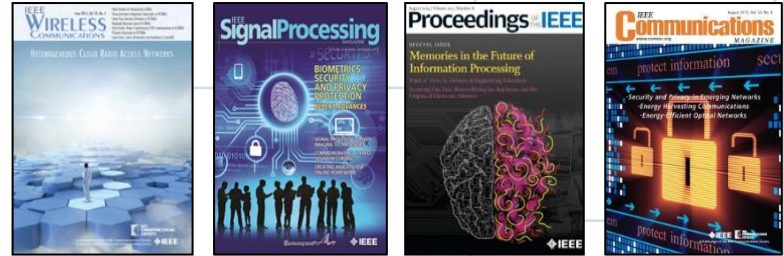
The Journal Citation Reports from Clarivate Analytics presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals. Based on the 2019 study released June 2020.

Learn more: ieee.org/citations

IEEE *Xplore*® Digital Library

IEEE Xplore is your gateway to trusted research—journals, conference proceedings, standards, eBooks, and education courses—to help you fuel imagination, build from previous research, and inspire new ideas.

- Powerful search tools

- User-friendly interface

- More than 5 million full-text documents

- Users download more than 15 million documents per month

Learn more: ieeexplore.ieee.org
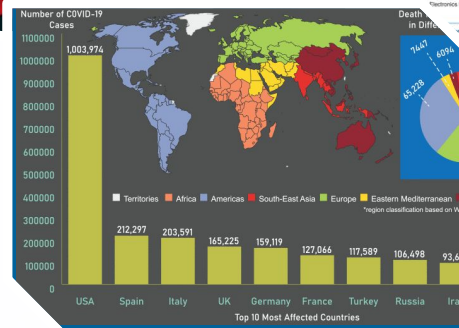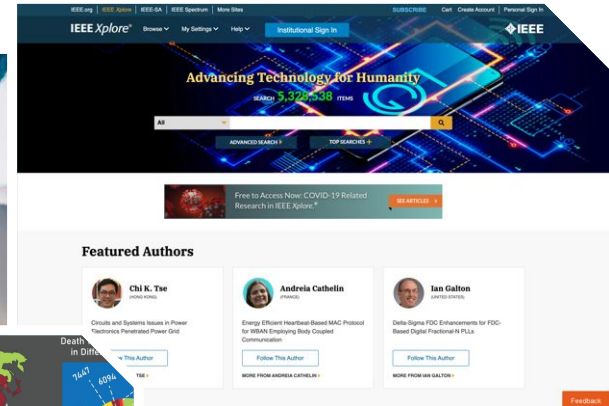
IEEE Research Powers New Patents

*IEEE is the **most-cited publisher in new patents** from top patenting organizations.*

A study of the top 40 patenting organizations ranks IEEE #1 again

- Over 3x more citations than any other publisher

- Patent referencing to IEEE increased 896% since 1997

- The importance of sci-tech literature in patents is rising

- IEEE research is increasingly valuable to innovators
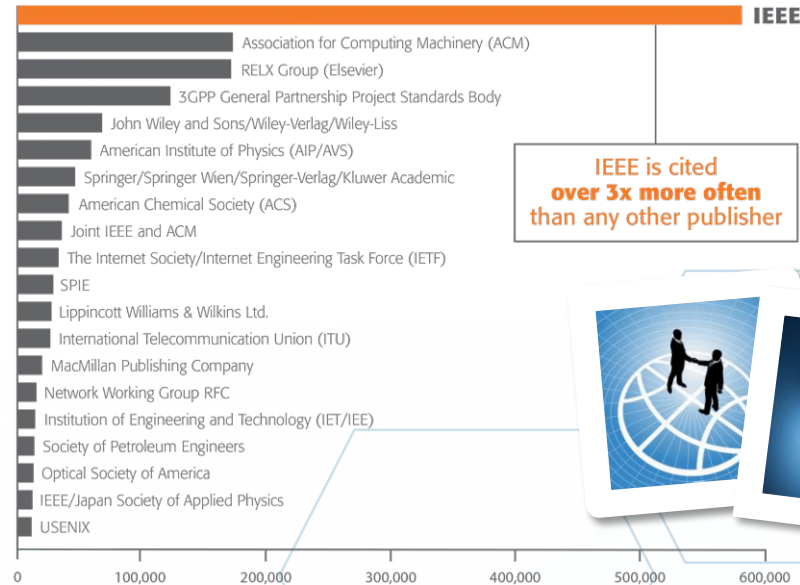
1790 Analytics LLC performed an in-depth analysis of the science references from top patenting firms.

Learn more: ieee.org/publications/subscriptions/patent-citation/

Improve ROI with Smarter Research

- Organizations receive measurable returns on investments when their researchers use the IEEE *Xplore* digital library.

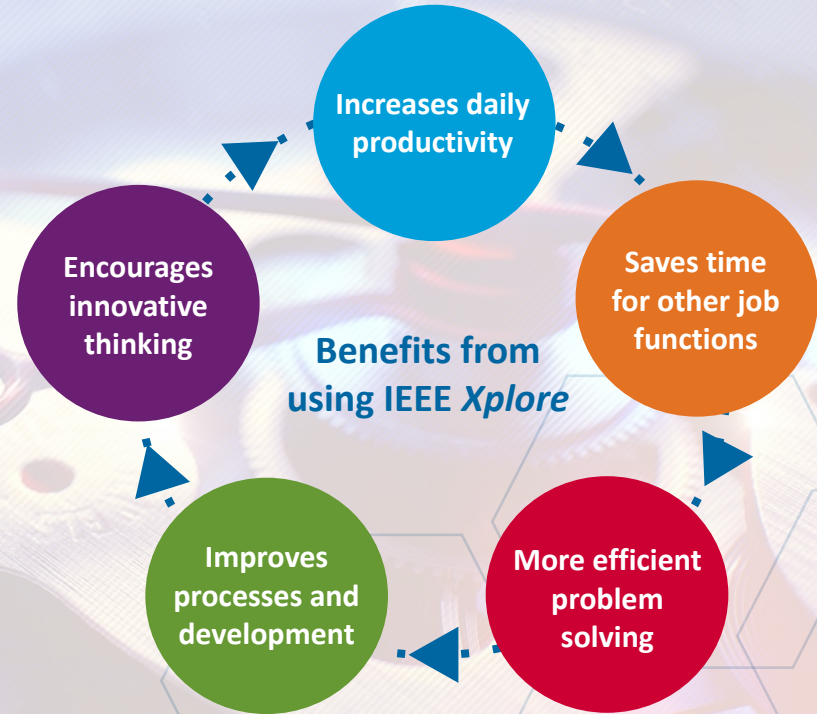- IEEE *Xplore* initiates a cycle of interrelated process improvements, product innovations, and business savings.

Increases daily productivity

Saves time for other job functions

Encourages innovative thinking

Benefits from using IEEE *Xplore*

More efficient problem solving

Improves processes and development

Learn more: innovate.ieee.org/improve-roi-through-smarter-research-with-the-ieee-xplore-digital-library/

◆IEEE

Improve ROI: Benefits of using IEEE *Xplore*

Keep Up-to-Date & Accelerate Research

IEEE *Xplore* allows for smarter, more efficient research projects.

TOP THREE USER BENEFITS OF IEEE *Xplore*:

| Stay Up-To-Date | Avoid reinventing the wheel | Increased Productivity |

Accelerate R&D to Increase ROI

There are many business advantages of using IEEE Xplore.

TOP THREE MANAGEMENT BENEFITS OF IEEE *Xplore*:

| Save Time and Money | Encourage Innovative Thinking | Increased Productivity |

Lost time affects your bottom line

The faster you can successfully complete your research, development, and testing—and get your products to market, the higher your ROI will be.

IEEE

Why Publish with IEEE?

Authors publish with IEEE for the heightened visibility, research activity, and industry credibility.

OPTIMIZED VISIBILITY Fifteen million downloads each month from the IEEE *Xplore*® digital library provides authors with the "findability" they seek.	**IEEE REPUTATION** Each author can take advantage of IEEE's stellar reputation. Past and present members include nearly two dozen Nobel Prize-winning innovators.	**TRUSTED CONTENT** IEEE journals and conference proceedings receive nearly three times the patent citations of competing publishers.
OPPORTUNITIES TO PUBLISH Over 200 journals, transactions, magazines, and more than 1,600 conferences around the world allow authors to publish in the best forum for their work.	**STREAMLINED PUBLICATION** IEEE's web-based workflow, including electronic submission, has shortened the time from submission to IEEE publication and helps authors track a paper's progress.	**EDITORIAL DEVELOPMENT** Tools are available to help manage your workflow and make it easier to collaborate, reference, publish, and deliver your writing to readers and researchers.
PEER REVIEW The peer-review process is designed to ensure the high quality of every article submitted to and published by IEEE	**REFERENCING AND SEARCHING** IEEE *Xplore* articles include outbound reference links to other publisher content registered in the CrossRef system. IEEE *Xplore* is also indexed by Google™.	**IEEE AUTHOR CENTER** Find tools and resources to support your scholarly publishing efforts

Learn more: ieeeauthorcenter.ieee.org

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Membership

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Publications

Standards

Education

Career Resources

Humanitarian and
Philanthropic Goals

Awards

Industry

Standards

IEEE is one of the leading producers of standards in the world,
and we work hard to ensure comprehensive and global standards.

IEEE

IEEE Standards Association (IEEE SA)

IEEE nurtures, develops, and advances the building of global technologies.

Consumers around the world enjoy the benefits of IEEE Standards:

- Provide the bricks and mortar for a globally level playing field for innovation
- Protect public safety, health & wellbeing
- Contribute to a sustainable future

COMPETITION
Influencing the competitiveness of industries & companies

CONFIDENCE
Demonstrating quality to customers by meeting expectations & requirements

INNOVATION
Providing an essential platform on which new technologies & processes can build

Global IEEE Standards

GROWTH
Facilitating trade & economic growth

PERFORMANCE
Fine-tuning performance and improving efficiency

SUSTAINABILITY
Making technology safer, interoperable and sustainable for the future

IEEE Standards Association

IEEE Standards drive the functionality, capability, and interoperability of a range of products and services that affect the way people live, work, and communicate.

INDIVIDUAL MEMBERSHIP
7500 + individual members in 94 countries

CORPORATE MEMBERSHIPS
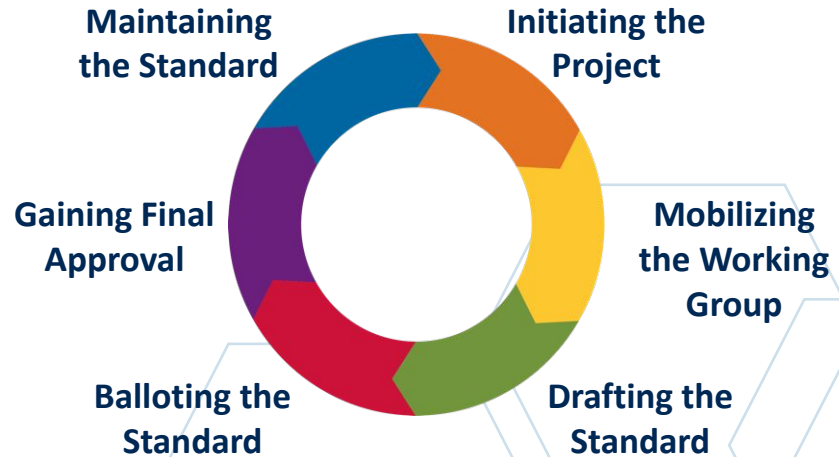380+ member corporations in 25 countries

STANDARDS & RELATED ACTIVITIES
34,000+ global participants;
all interested parties are welcome

1,900+ Standards & Projects

GLOBAL AGREEMENTS
180+ Global agreements

Maintaining the Standard

Initiating the Project

Gaining Final Approval

Mobilizing the Working Group

Balloting the Standard

Drafting the Standard

IEEE

IEEE Standards in Real Life

Enabling consumer connectivity through consensus building

ELECTRIC VEHICLE STANDARDS

IEEE 802™ Series
IEEE 1901™
IEEE 1901.2™
IEEE 1609™ Series (Vehicular Communications)
IEEE 2030™
IEEE 2030.1.1™
IEEE 2030.5™
IEEE P2040™ Series
IEEE P2408.11™

HOME NETWORKING STANDARDS

IEEE 802™
IEEE P1901™
IEEE 1901.2™
IEEE 1905.1™ (Communication inside the home)

HOME NETWORKING STANDARDS

IEEE 802™
IEEE P1901™
IEEE 1901.2™
IEEE 1815™

SMART GRID INTO HOME DEVICES STANDARDS

IEEE 1547™ Series (Distributed Energy Interconnection Solar, Wind, Storage, etc.)
IEEE 2030™

SMART GRID INTO HOME DEVICES STANDARDS

IEEE 1675™
IEEE 1775™
IEEE 2030™
IEEE 2030.1™
IEEE 1901™
IEEE 1901.2™

3D VIDEO STANDARDS

IEEE 1857.9™
IEEE P2048.2™
IEEE P2048.3™
IEEE P2048.12™
IEEE P3141™

SMART METERING STANDARDS

IEEE 1377™
IEEE 1701™
IEEE 1702™
IEEE 1703™
IEEE P1704™

MOBILE VIDEO STANDARDS

IEEE 2200™
IEEE 802.11™ (Intelligently Cached Mobile Content)
IEEE 1858™ (Camera Quality)
IEEE P2048.2™
IEEE P2048.3™
IEEE PW048.12™

Learn more: standards.ieee.org

IEEE Standards in Real Life

Expanding the adoption of wearable devices through IoT and consensus building

SMART EYEWEAR

IEEE 802.11™
IEEE 802.15.4™
IEEE P2048™

NETWORK, WEARABLE DEVICES AND IoT INFASTRUCTURE

IEEE 802®
IEEE 1451™ Series
IEEE 1588™
IEEE P360™
IEEE P1912™
IEEE 2413™
IEEE 2050™
IEEE P2144 Series
IEEE PS786™

SMART FABRIC

IEEE 802.15.4™
IEEE 1451™ Series
IEEE 2700™
IEEE P2786™

MOBILE DEVICES

IEEE 802.11™
IEEE 802.15.4™
IEEE 802.15.6™
IEEE 2200™
IEEE 11073-20601™
IEEE P2721™

WIRELESS CONNECTIVITY

IEEE 802.11™
IEEE 802.15.4™

CLOUD COMPUTING

IEEE P2301™
IEEE PS302™

VIRTUAL REALITY & AUGMENTED REALITY

IEEE P1589™
IEEE P2048™Series
IEEE P3141™

SMART WATCH

IEEE 802.11™
IEEE 802.15.4™
IEEE 802.15.6™
IEEE 2700™
IEEE 11073-20601™

SMART INSOLES

IEEE 802.11™
IEEE 802.15.4™
IEEE 802.15.6™
IEEE 1451™ Series
IEEE 2700™

HUMAN AUGMENTATION

IEEE P2049™

ACCESSIBILITY

IEEE PS049™ Series
IEEE P2843™

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IEEE Standards in Real Life

Advancing the technologies for connected vehicles through consensus building

INTELLIGENT TRANSPORTATION SYSTEMS

IEEE 1609™
A family of standards defining the architecture, services and standard interfaces for secure vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) wireless communications.

IEEE 1616™
Standards for motor vehicle event data recorders.

IEEE 802.11™
WLAN to support communication between vehicles and the roadside and between vehicles while operating at speeds up to a maximum of 200 km/h for communication ranges up to 1000 meters.

IEEE P2020™
IEEE 2846™ Series

DESIGN AUTOMATION

IEEE 2846™
IEEE 2851™

CONNECTIVITY

IEEE 802.3™
Defining the physical layer and data link layer's media access control of wired Ethernet, in local area networks and wide area network applications.

IEEE 802.1 TSN™

IEEE 2030.5™

VISION SYSTEMS

IEEE 2020™

CYBERSECURITY

IEEE 203.5™

COOPERATIVE, AUTONOMOUS AND AUTOMATED DRIVING

IEEE P2040™ SERIES
A series of standards for connected, automated and intelligent vehicles.

IEEE P7002™
IEEE P7009™
IEEE P2048.11™

TRANSPORTATION ELECTRIFICATION

IEEE 2030™ and its related standards are the first all-encompassing standards series providing alternative approaches and best practices for achieving smart grid interoperability.

IEEE 1547™ SERIES: A series of standards for distributed power to maximize the benefits of interconnection.
IEEE P1562™: Standard for array and battery sizing.
IEEE 1901™ SERIES : Standards relating to broadband connectivity over electric power lines.

TRAFFIC SAFETY

IEEE 1512™
Multiple standards for traffic safety, hazardous materials and public safety incident communications.

IEEE P2040™ SERIES
IEEE P2048.11™

SMART RAIL

A wide range of standards relating to electric rail operation including IEEE 11-2000, IEEE 16-2004, IEEE 1653.1, IEEE 1791, P1883, P1884, P1887, IEEE 1896, P2046, 1536, 1558, 1568, 1570, 1628, 1629, 1630, 1653 SERIES, AND 1698. As well as a series of standards relating to communication for rail transit systems, including IEEE 1473, 1474, 1475, 1476, 1477, 1482.1, AND 1483.

Learn more: standards.ieee.org

IEEE Standards in Real Life

Improving personal health device communications through consensus building

GLUCOSE METER
IEEE P11073-10417™

INSULIN PUMP
IEEE 11073-10419™

CONTINUOUS GLUCOSE MONITORING
IEEE P11073-10425™

SLEEP APNEA BREATHING THERAPY EQUIPMENT
IEEE 11073-10424™

BLOOD PRESSURE MONITOR
IEEE 11073-10407™

BODY COMPOSITION ANALYZER
IEEE 11073-10420™

CARDIOVASCULAR FITNESS & ACTIVITY MONITOR
IEEE 11073-10441™

WEIGH SCALE
IEEE 11073-10415™

CONNECTIVITY TRANSPORTS
IEEE 802.11™ (Often referred to as WiFi®)
IEEE 802.15.4™ (Often referred to as Zigbee®)
IEEE 11073-30300™ (Often referred to as Infrared Communications)
IEEE 11073-30400™ Near Field Communications
IEEE 802.3™ (Often referred to as Ethernet)
IEEE P271™ Wireless Diabetes Device Security Assurance

CLOUD
IEEE 2301™
IEEE P2302™

PULSE OXIMETER
IEEE P11073-10404™

ELECTROCARIOGRAPH (ECG)
IEEE 11073-10406™

Learn more: standards.ieee.org

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Participate in Standards Development

Getting involved in IEEE standards provides many benefits:

- Opportunities to network with industry peers

- Broaden your understanding of your industry and technology

- Gain familiarity with the content of standards in which you are involved

- Facilitate early compliance and anticipating market requirements
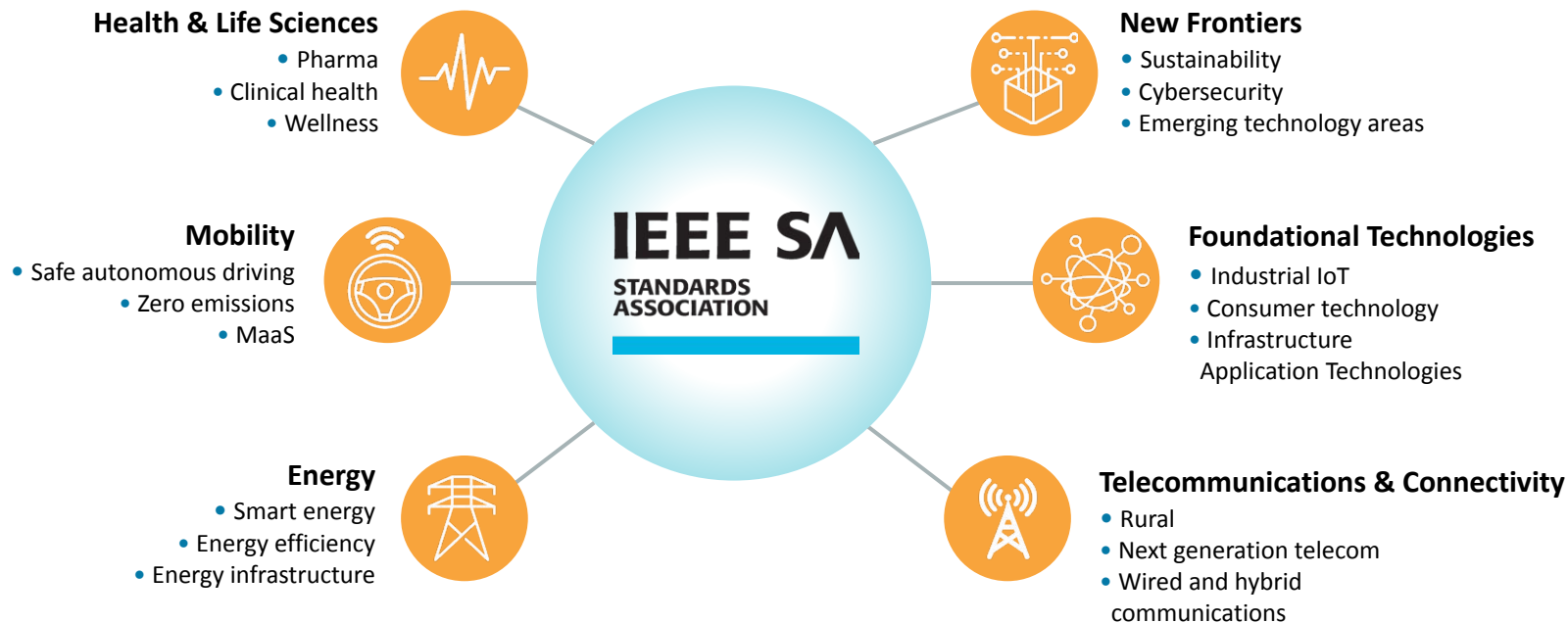
WAYS TO GET INVOLVED

- Standards Development

- Industry Connections Program activities

LEARN ABOUT:

- IEEE SA PRACTICES
- IEEE SA OPEN - Open Source
- IEEE Conformity Assessment Program
- IEEE Alliance Management Services
- IEEE SA Global Engagement activities

IEEE

IEEE SA Practices

Addressing global problems through community and consensus.

Health & Life Sciences
- Pharma
- Clinical health
- Wellness

New Frontiers
- Sustainability
- Cybersecurity
- Emerging technology areas

Mobility
- Safe autonomous driving
- Zero emissions
- MaaS

IEEE SA
STANDARDS ASSOCIATION

Foundational Technologies
- Industrial IoT
- Consumer technology
- Infrastructure Application Technologies

Energy
- Smart energy
- Energy efficiency
- Energy infrastructure

Telecommunications & Connectivity
- Rural
- Next generation telecom
- Wired and hybrid communications

IEEE SA Program Portfolio

Industry Connections

Exploring & incubating new tech & its use

Standardization

Creating markets & protecting public safety through standards development

Membership

Getting connected to experts & resources & enabling advanced participation options

Conformity Assessment

Providing confidence & assurance & accelerating market adoption

Open Source

Providing a community-powered platform to support open source projects

Alliance Management

Providing program support to alliances & trade associations

Registries

Providing unique identifiers to support global compatibility & interoperability

Industry Affiliate Network

Assisting industry organizations in accelerating development and adoption of global standards

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Communities

Conferences

Publications

Standards

Education

Career Resources

Humanitarian and
Philanthropic Goals

Awards

Industry

Education

IEEE inspires young minds, enables futures, and discovers solutions to tomorrow's challenges.
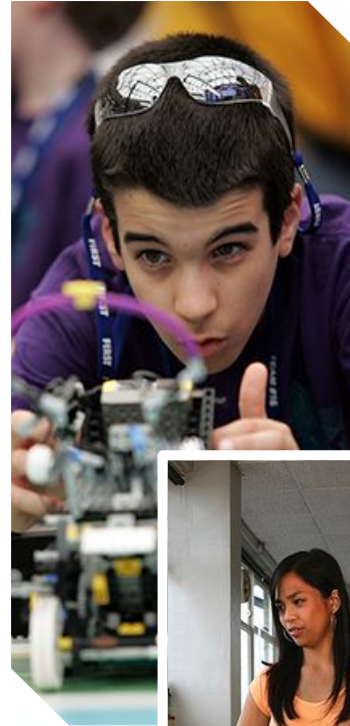
IEEE

IEEE Educational Programs and Resources

IEEE programs open eyes to possibilities.

Enabling students and professionals to achieve their goals with:

- Continuing Education

- Pre-University STEM Programs

- University Programs

- Career Preparation

- Volunteer Mentoring Opportunities

- Awards and Scholarships

Visit ieee.org/education

Continuing Education: IEEE Learning Network

*IEEE courses are taught by experts in technology–expand your skill set with the **latest education courses.***

IEEE Learning Network

Advance Your Career
Learners who pass the course assessments through the IEEE Learning Network can earn CEUs and PDHs.

High-Quality Education
Courses are developed and peer-reviewed by leading experts in the field.

Self-paced & Flexible
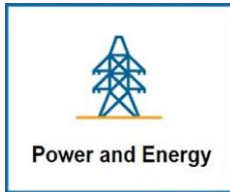Online learning modules ranging from one to three hours in length.

Interactive Content
With an easy-to-use player/viewer, audio and video files, diagrams, animations, and automatic place marking.

See full list of courses and try free courses: iln.ieee.org

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Continuing Education: IEEE Learning Network

IEEE keeps up with the rapid pace of technology, continuously adding new courses.

IEEE Learning Network

Computing	Emerging Technologies	English for Technical Professionals
IEEE Standards	Power and Energy	Telecommunications

Cloud Computing
(190 courses)

5G Technology
(715 courses)

Software Engineering
(664 courses)

Smart Grid
(348 courses)

Ethical Hacking
**(63 courses)**

3D Printing
(673 courses)

Cyber Security
(156 courses)

Vehicle Technology
(577 courses)

See full list of courses and try free courses: iln.ieee.org

Continuing Education: IEEE Society Resource Center

Access to technical content, training, and education for every engineering discipline.

- Valuable IEEE Society and technical community content

- Access to content 24/7 through an easy-to-use global portal

- Peer-reviewed technical products available

- Opportunities to earn CEUs and PDHs

- Most technical content available at no cost for Society members from their respective Resource Center
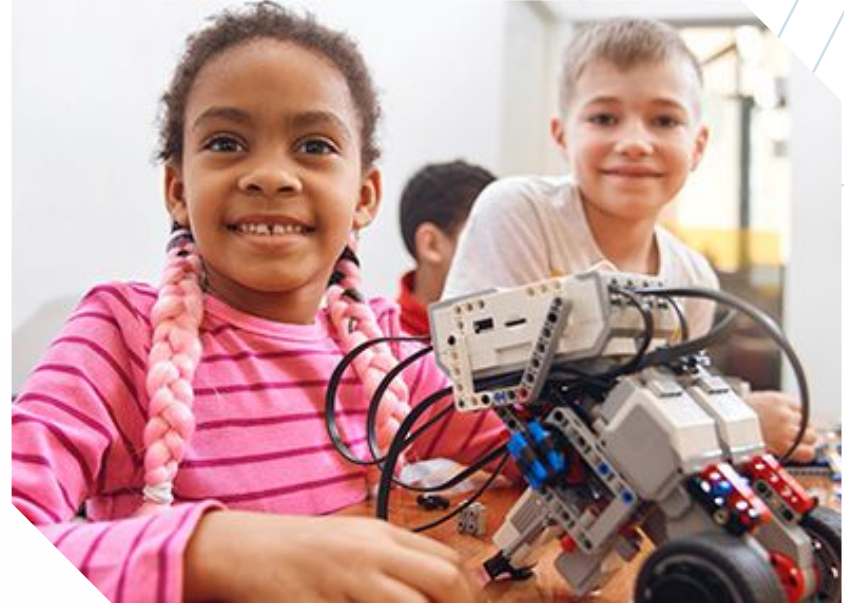
Pre-University STEM Education Resources

IEEE offers STEM education opportunities for pre-university students and teachers across the globe.

- **TryEngineering.org**: Free STEM education content, including lesson plans for teachers, online engineering games, engineer profiles, an accredited engineering program university finder, and much more.

- **Volunteer STEM Portal**: A free website for IEEE volunteers to share their pre-university STEM programs. The portal also serves as a resource for other IEEE Volunteers interested in teaching STEM.

- **TryEngineering Together**: A virtual mentoring program that pairs engineers and STEM enthusiasts with students in grades 3–8 in under-resourced school districts.

- **TryEngineering Summer Institute**: A two-week, on-campus summer engineering experience for high school students.

- **IEEE REACH**: Provides STEM and Social Studies teachers with free resources that, through the lens of history, situate science, technology, and engineering in their social and humanistic contexts. Resources include lesson plans, hands-on activities, primary source materials, and student videos that deliver a new, interdisciplinary pathway for STEM education.

University Education Resources

IEEE is ensuring that students have the resources needed to succeed academically, and faculty members have opportunities for career development.

- **ABET Accreditation**: IEEE and its volunteers have a voice in determining the threshold set of knowledge, skills, and abilities needed for successful entry into engineering, computing, and technology fields.

- **EPICS in IEEE**: Students learn to solve problems in communities worldwide through service learning, while at the same time improving the quality of life for the people living there.

- **IEEE Eta Kappa Nu (IEEE-HKN)**: Encourages and recognizes individual excellence in education and meritorious work, in professional practice, and in any of the areas within the IEEE-designated fields of interest.

- **IEEE Teaching Excellent Hub**: Provides professional development resources for those teaching engineering, computing, and technology at the university level.

- **IEEE Education Society**: The IEEE Education Society is a worldwide community of professionals dedicated to ensuring high-quality education in science and engineering.

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IEEE Educational Activities Board (EAB) Awards

Recognizing and honoring major contributions to engineering and technical education.

Core IEEE EAB Awards:
- Meritorious Achievement in Accreditation Activities
- Meritorious Achievement in Continuing Education
- Meritorious Achievement in Outreach and Informal Education
- Meritorious Achievement Award in Pre-University Education
- Major Education Innovation
- Meritorious Service to IEEE EAB
- Educational Activities Board (EAB)/Standards Association (SA) Board of Governors Standards Education Award
- Employer Professional Development
- Section Professional Development
- Society/Council Professional Development

Scholarship/Fellowship
- IEEE Life Members Graduate Study Fellowship in Electrical Engineering
- The Charles LeGeyt Fortescue Scholarship

IEEE-HKN Awards and Recognitions:
- Outstanding Chapter Award
- Alton B. Zerby and Carl T. Koerner Outstanding Student Award
- Outstanding Young Professional Award
- C. Holmes MacDonald Outstanding Teaching Award
- Eminent Member Recognition
- Distinguished Service Award
- Asad M. Madni Outstanding Technical Achievement and Excellence Award

Learn more: ieee.org/education/awards/index.html

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Communities

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Publications

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Education

Career Resources

Humanitarian and
Philanthropic Goals

Awards

Industry

Career Resources

IEEE offers lots of ways to build and plan your career.

IEEE Credentialing Program

Turn meetings into educational experiences.

IEEE Credentialing Program will help your technical professionals:
- Gain a competitive advantage
- Update their knowledge and skills
- Build professional credibility
- Earn the CEUs/PDHs they need to keep their licenses current

Participants and attendees of IEEE sponsored events can earn:
- Continuing Education Units (CEU)
- Professional Development Hours(PDH)
- Certificates of Participation
- Digital Badges
- Recognition for their time and hard work

IEEE Credentialing Program provides credentials for offerings such as:
- Tutorials, technical programs, short courses, and workshops
- Sponsored lectures and short courses
- Classroom Lectures
- Seminars
- Laboratories
- Study networks
- Continuing education through the IEEE Learning Network
- And more

Learn more: ieee.org/education/certificates

IEEE

IEEE Job Site

Find Engineering and Technical Jobs, plus so much more.

Job Seekers

- Search for jobs or browse by category
- Get relevant career news and advice
- Know what to ask for with the IEEE-USA Salary Calculator

Employers

- Recruit highly qualified, sought-after IEEE member candidates
- Search the IEEE resume database of registered job seekers to find the right candidate


Learn more: jobs.ieee.org
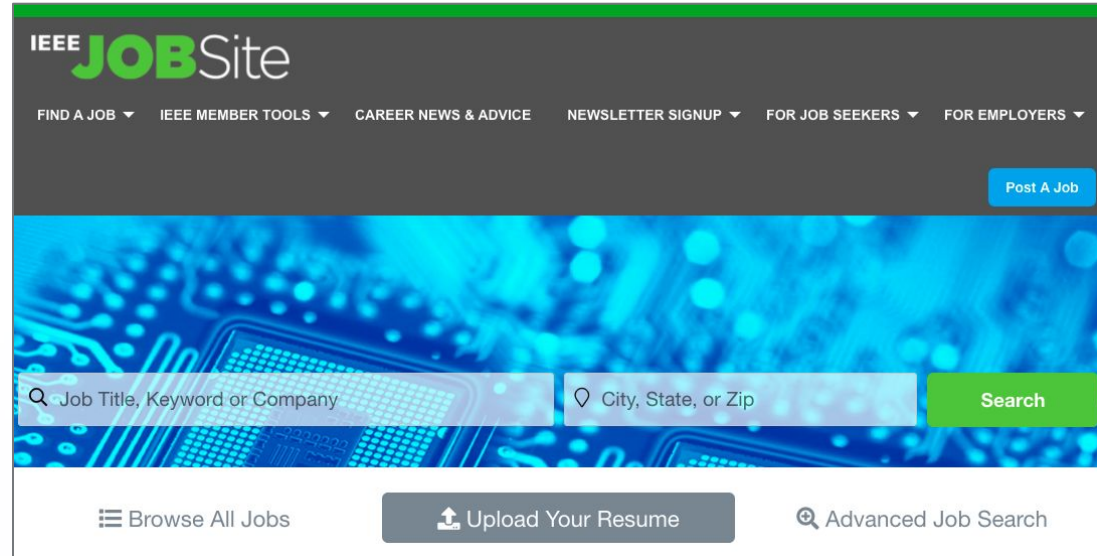
IEEE Mentoring Program

Online program that facilitates the matching of IEEE members for a mentoring partnership.

Benefits of participating in the IEEE mentoring program:

- Brings ongoing attention to your career development

- Let's you develop a specific skillset

- Expands your professional network

- Provides an opportunity to share knowledge and experiences

- Allows participants to see things from another person's perspective

- Enhances your personal brand

Learn more: ieee.org/membership/mentoring.html
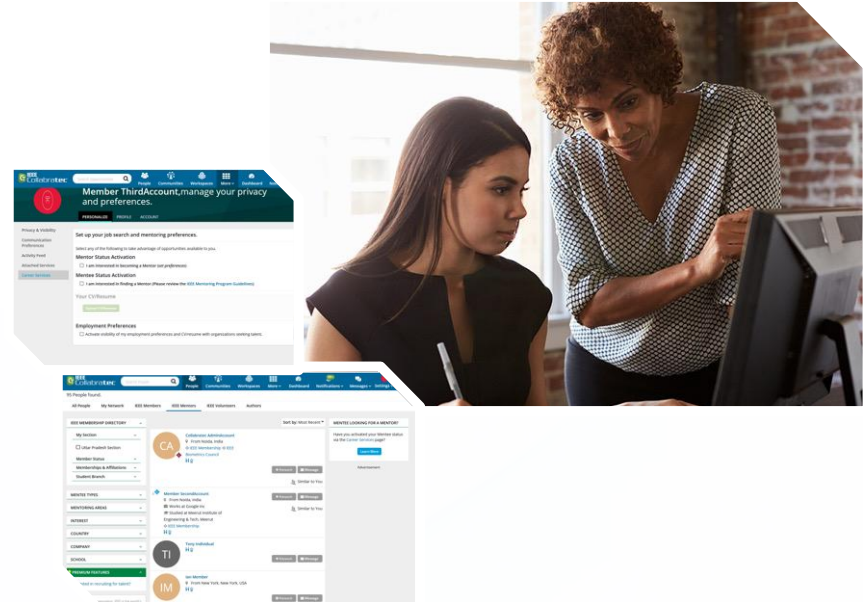
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More Career Resources from IEEE

IEEE offers multiple avenue to discover, learn about, and find new career paths

Opportunities in IEEE Collabratec

- Find jobs, join a new workforce, and get discovered

IEEE.tv Career Series

- Explore videos about opportunities in engineering-related fields, interviews with experts and pioneers, and skills development

Related articles in *The Institute*

- Read the latest career and engineering news from IEEE

IEEE-USA

- Access tech-focused webinar series for career development

Learn more: ieee.org/about/employers-job-seekers.html

Humanitarian and Philanthropic Goals

IEEE is committed to advancing technology for the benefit of humanity. IEEE does more than fulfill needs. We improve lives.

IEEE

IEEE Foundation

Realize the full potential of IEEE.

Making impacts across multiple initiatives and around the world:

- Illuminate the possibilities of technology by using it to address global challenges

- Educate the next generation of innovators and engineers

- Engage a wider audience in understanding the value of engineering and technology

- Energize innovation by celebrating technological excellence

Learn more: ieeefoundation.org

IEEE Humanitarian Activities Committee (HAC)

Inspiring, connecting, and empowering IEEE volunteers

IEEE HAC provides leadership and resources that **inspire and enable IEEE volunteers around the world to carry out and support impactful humanitarian technology and sustainable development activities at the local level.**

IEEE HAC's work focuses on:

- **Raising awareness** – IEEE HAC engages in outreach efforts so that existing and potential IEEE members know how they can use their technical skills for social good.

- **Providing training** – Educational materials and opportunities allow humanitarian technology and sustainable development activities participants to obtain necessary skills.

- **Supporting IEEE humanitarian technology and sustainable development activities** – from 2016-2020 IEEE HAC awarded **over US$2.66M** in funding to 329 projects and events.

- **Strengthening the sustainable development community** through collaborations within, and beyond, IEEE.

Humanitarian Activities Committee

Learn more: hac.ieee.org

IEEE Special Interest Group on Humanitarian Technology (SIGHT)

Connecting a global network of technically-trained individuals

SIGHT is a popular feet-on-the-ground initiative operating within IEEE HAC. SIGHT's global network of volunteers' partner with underserved communities and local organizations to leverage technology for sustainable development.

- There are **17,500+ individual SIGHT members in 119 countries**— approximately 75% are students or graduate students.
- SIGHT encourages members to form groups to:
  - **learn** about sustainable development
  - **build** relationships within their local communities
  - **implement** projects that utilize technology to tackle key challenges the community is facing
- Since SIGHT's inception in 2011, over **180 SIGHT Groups** have been established in **53 countries.**

"We gained knowledge, improved technical skills, expanded our network, and made bonds with the community. We encourage anyone willing to help implement humanitarian technology projects—we guarantee you will have a great experience."

—SIGHT Project participant from El Salvador

Learn more: sight.ieee.org

IEEE New Initiatives Program

Big ideas lead to brilliant solutions

The New Initiatives program supports potential new IEEE initiatives, services, or products which could have lasting impact on IEEE:

- Increasing IEEE's connectivity to the industry

- Engaging and recruiting members

- Creating innovative education opportunities

- Increasing the visibility of IEEE and its relevance to different communities

IEEE New Initiatives Program

Big ideas lead to **brilliant solutions**

SEED GRANTS OF UP TO $40,000 are available for small projects taking less than 12 months to complete

NEW INITIATIVES OF OVER $40,000 are awarded for larger projects taking 1–3 years to complete

ROLLING SUBMISSIONS means that your idea doesn't have to wait to come out of the dark

Learn more: ieee.org/initiatives

IEEE Smart Village

IEEE Smart Village is lighting up homes, businesses, and global classrooms—and empowering local economies using three pillars:

ENERGY
Provides renewable-energy solutions and necessary funding to local entrepreneurs to build electricity companies, assists the partners in establishing a sustainable business plan, and delivers ongoing training.

EDUCATION
Two complementary components crucial to helping stimulate sustainable community prosperity.
- Development Practice graduate certificate in humanitarian engineering
- Community Entrepreneurship vocational training to deploy, maintain, and franchise an IEEE Smart Village seed-funded micro-utility.

ENTREPRENEURSHIP
Our philosophy of empowering local entrepreneurs is unique in this philanthropic endeavor. These business owners have personally invested in the success of their community. The pride in accomplishments achieved together furthers the economic growth of the area.

Learn more: smartvillage.ieee.org

EPICS in IEEE

Connecting Engineering to Community Service

EPICSᴵᴺ **IEEE**

Solving community challenges through the power of technology and education, EPICS provides provide funding, support, mentorship, and visibility for engineering projects that transform communities across the globe.

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.

Learn more: epics.ieee.org

◆**IEEE**

IEEE REACH

Raising engineering awareness through the conduit of history

IEEE REACH provides teachers and their students with educational resources that explore the history of technology and highlight how technology, throughout time, impacts society, culture, politics, and economics, and how, in turn, those social aspects influence technology.

The goal of the program is to improve technology and engineering literacy skills as they relate to the social context of technology and provide a new lens from which students may view engineering and technology as relevant to their lives and their future.

IEEE REACH Resources include Inquiry Units, or lesson plans (which include formative and summative performance tasks, excerpted documents, and civic actions), Primary Sources, Hands-on Activities, and short engaging classroom Videos (Multimedia). All resources are downloadable for use either in the classroom or for remote learning.

Learn more: reach.ieee.org

IEEE-HKN

*IEEE Eta Kappa Nu (IEEE-HKN), the honor society of IEEE, promotes excellence in the profession and in education with ideals of **Scholarship, Character, and Attitude.***

- IEEE-HKN members consist of students, alumni, and other professionals who have demonstrated exceptional academic and professional accomplishments.

- Student members are selected on the basis of scholastic standing, character, and leadership.

- Professional members are nominated by a current member and selected by virtue of their contributions.

IEEE-Eta Kappa Nu

Learn more: hkn.ieee.org

IEEE Power & Energy Society Scholarship Plus Initiative

The goal of the IEEE PES Scholarship Plus Initiative is to encourage undergraduate students to pursue careers in power and energy engineering.

- Provides scholarships and real-world experience to undergraduates who are interested in power and energy engineering careers.

- Attracts highly qualified engineering students to the field.

- Paves the way for the individuals who will one day develop new green technologies, build the smart grid, and change the way we generate and utilize power.

IEEE Power & Energy Society
SCHOLARSHIP PLUS INITIATIVE®
Preparing the Next Generation of Power & Energy Engineers

IEEE-USA Community Outreach Initiative (the MOVE Project)

MOVE Community Outreach is an emergency relief program committed to assisting victims of natural disasters with short-term communications, computer, and power solutions.

- These temporary emergency relief provisions help those affected stay connected and make sure they can access the help they need.

- Services include phone charging, internet & communications support, and lighting to disaster victims.

Learn more: move.ieeeusa.org

IEEE Life Members Committee (LMC)

Providing leadership in identifying and supporting interests of IEEE Life Members.

The IEEE Life Members Fund of the IEEE Foundation supports IEEE activities of interest to Life members, potential engineers, and engineering students. Generous donations are invested in initiatives that:

- Excite students about STEM

- Empower young minds to pursue careers in IEEE fields of interest

- Preserve the legacy IEEE members helped create

- Acknowledge peers for accomplishments

- Encourage Life members and retirees to stay active in IEEE

Learn more: ieee.org/communities/life-members/fund.html

IEEE History Center

The mission of the IEEE History Center is to preserve, research, and promote the legacy of electrical engineering and computing technologies.
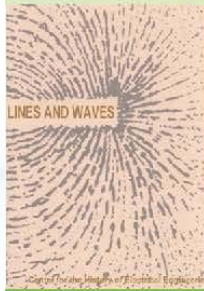

IEEE HISTORY CENTER TIMELINE
Celebrating 40 Years

1981
1st exhibit, "Lines and Waves," opens at IEEE Electro conference

1985
1st Milestone: Landing of the Transatlantic cable, Heart's Content, Newfoundland, Region 7

1991
1st conference: "Technological Competitiveness"

1995
250th oral history recorded (Lionel Barthold)

2002
IEEE Virtual Museum opens

2011
1st IEEE History Center Press Book: *Bell Labs Memoirs*

2015
Engineering & Technology History Wiki goes live

2016
IEEE REACH program launch

Learn more: ethw.org

Awards

IEEE Corporate Awards recognize leaders and visionaries who have paved the road of discovery.

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Conferences

Publications

Standards

Education

Career Resources

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Awards

Industry

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IEEE Corporate Awards Programs

Accomplishments in IEEE's fields of interest are recognized with annual presentations for extraordinary contributions to technology, society, and the engineering profession.

Each award has a unique mission and criteria—and offers the opportunity to honor distinguished colleagues.

MEDALS

RECOGNITIONS

TECHNICAL AWARDS

IEEE Medals, Recognitions, and Technical Field Awards are sponsored by donors, corporate partners, and IEEE Societies & Organizational Units.

Learn more: **corporate-awards.ieee.org**

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IEEE Medals

IEEE Medals are the highest awards presented within IEEE. The highest honor is the IEEE Medal of Honor, which recognizes an individual for an exceptional contribution or extraordinary career in the IEEE fields of interest.

IEEE Medals embrace significant and broad IEEE interests and purposes. They are presented to individuals or teams for outstanding technological innovations and career achievements that have advanced technology for the benefit of humanity.

Past recipients of the IEEE Medal of Honor, have included such visionaries as:

Guglielmo Marconi

(1920, for radio telegraphy)

William Shockley

(1980, for junction, analog, and junction field-effect transistors)

Andrew S. Grove

(2000, for pioneering research in metal oxide semiconductor devices and technology)

Gordon E. Moore

(2008, for pioneering technical roles in integrated-circuit processing, and leadership in the development of MOS memory, the microprocessor computer, and the semiconductor industry)

Mildred Dresselhaus

(2015, for leadership and contributions across many fields of science and engineering)

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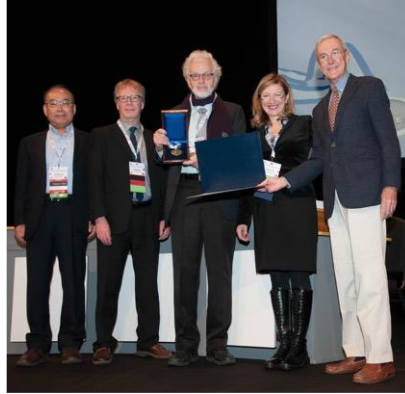
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