

IEEE Foundation



TOGETHER, WE WILL

Build a Better World





TOGETHER, WE WILL.

Too frequently people focus on what they should do. Given the mission of the IEEE Foundation to transform lives through the power of technology, and given the challenges that exist in providing service and support to individuals in need across the globe, our efforts must be more focused on what we can and will do.

Technology connects us, warms us, heals us and illuminates our world.

It allows us to explore the depths of the ocean and the mysteries of space. It improves quality of life in ways that were beyond imagination only a generation ago.

Yet, access to technology is not universal.

On every continent people are suffering the effects of diminished health, education, and safety for lack of life-saving and life-enhancing technologies. All over the world – including in our most prosperous nations – the future is uncertain.

The Institute of Electrical and Electronics Engineers (IEEE) is bringing technology to people in need and planting seeds for a bright future through the nourishment of young minds.

The IEEE Foundation, the philanthropic arm of IEEE, invests in programs that unleash the power of IEEE to deploy solutions designed to bring the promise of that technology, and the knowledge to use it, to individuals and communities all over the world.

*We invite you to join
the IEEE Foundation
in building a better world.*





FOR MORE THAN 130 YEARS,

IEEE – THE WORLD'S LARGEST TECHNICAL PROFESSIONAL ORGANIZATION – has been advancing technology for humanity. Since 1973, the IEEE Foundation has inspired vital philanthropic support needed to deliver technology and create knowledge wherever great need exists.

Why is the IEEE Foundation unique?

With a global membership of 400,000 of the world's brightest minds, IEEE is uniquely capable of solving technical and scientific challenges. The IEEE Foundation facilitates the deployment of these sharp minds and capable hands, addressing some of the greatest challenges of our time.

The interests of IEEE are as broad as its geographic reach throughout 160 countries. Members are making a positive impact wherever technology professionals are imagining, innovating, and solving problems.

What does the IEEE Foundation do best?

There is no other professional organization capable of delivering tangible, impactful results as IEEE.

Philanthropic investments in the IEEE Foundation are prudent, focused, and effective. Programs are designed to meet compelling needs for which there are clear, technological solutions. Each program is vetted by review panels composed of leading technology experts. IEEE's global reach ensures that every initiative is executed by a team that is not only technically proficient, but fluent in various cultural, social, and strategic contexts.

Activities supported by the Foundation include:

- >> Improving the human condition through technology
- >> Preserving and promoting technological heritage
- >> Empowering bright minds and the next generation of technologists.

Human suffering exists where there is no access to technology for health care and other essential needs. Young people – talented people on whom the future of our profession depends – are turning away from technology careers for lack of confidence, mentoring or funding. Lives are diminished by lack of access to education – challenges that can be addressed through the strategic application of technology.

We will help.

Together, we will use IEEE's vast expertise and network to meet these challenges. The IEEE Foundation transforms the knowledge and reach of IEEE into tangible, hands-on technology solutions. With your support the IEEE Foundation adds the most powerful force to those of IEEE – **the power of generosity.**

Philanthropy enhances IEEE's commitment to advancing technology for humanity. Combining the power of technology, the power of intellect, the power of collaboration, and the power of generosity:

- >> **TOGETHER, WE WILL place prosperity within reach for millions in need**
- >> **TOGETHER, WE WILL provide children a brighter future**
- >> **TOGETHER, WE WILL inspire the next generation of technology professionals to follow us – to be the dreamers, the thinkers, and the doers.**



IEEE Foundation *Signature Programs*



EPICS IN IEEE

EPICS (ENGINEERING PROJECTS IN COMMUNITY SERVICE) in IEEE delivers innovative technology solutions while providing young professionals with valuable, real-world learning experiences. EPICS in IEEE deploys teams – typically composed of university engineering students, faculty advisors, high school students, and volunteers – to envision, develop, and install technologies IN the community FOR the community.

EPICS in IEEE does much more than deliver technology solutions. It helps diversify the future talent pool, provides students with a wide spectrum of valuable skill sets, and establishes effective community-based partnerships to build strong infrastructure. The program's ultimate vision is to educate engineers who understand the importance of using knowledge to improve lives in their communities.

IMPACTS INCLUDE:

- >> 55 projects by 304 university students and 587 pre-university students – 33% of whom are female
- >> 90,000 people helped in Africa, South America, South Asia, and North America
- >> Facilitate learning and innovation while addressing significant human needs.



The need for smart energy solutions tops the public agenda. Power engineers are devising creative approaches to meet increasing demand. New technologies are on the horizon, yet a capacity crisis looms.

Some 60% of power and energy professionals may retire or leave the profession by 2020. Recruitment of new talent is not keeping pace. The U.S. Power & Energy Engineering Workforce Collaborative recommends doubling the number of power engineering graduates by providing scholarships for university students – such as those awarded by the IEEE Power & Energy Society (PES). IEEE's PES Scholarship Plus Initiative provides tuition support, mentoring, and career networking to the best and brightest electrical engineering students in the United States and Canada.

IMPACTS INCLUDE:

- >> Nearly 1,000 scholarships awarded
- >> 191 power and energy organizations with students in internships or full-time jobs
- >> Strengthen the future power engineering work-force and meet hiring needs.



TOGETHER, WE WILL Achieve Transformative Change

At the heart of the IEEE Foundation's work is its menu of innovative *Signature Programs* – each delivering immediate impact coupled with long-term growth and technological literacy. By investing in an IEEE Foundation Signature Program, you are addressing specific challenges with maximum impact.

REACH | Raising Engineering Awareness Through the Conduit of History

REACH is the answer to social studies teachers' desire to have educational tools that help teach and engage pre-university students in the history and role of engineering and technology and its impact on society.

The wealth of information contained within the IEEE History Center is brought to life in dynamic enrichment modules using a multi-media format.

Modules provide a snapshot of technological history and expand students' awareness and appreciation of engineers' roles in today's world. History is the perfect conduit to position engineers as technological heroes. Social studies and history teachers currently lack the tools to do so in an effective and exciting way.

IMPACTS INCLUDE:

- >> Develop standards based modules for use by secondary school teachers
- >> Create a more technologically literate society
- >> Bring the history of technology to life.



Electricity is a major driver in eliminating poverty and building toward sustainable community prosperity. IEEE Smart Village strives to address this need on a global platform and help energy-deprived communities build toward sustainable prosperity.

Combining the talents of IEEE members with sustainable development partners in education, business and technology, Smart Village delivers immediate, life-changing impact to the world's poorest, energy-deprived populations. Micro-utility equipment is seed-funded to create self-sustaining, community owned and operated micro-utilities in off-grid areas. These areas, where people are living on less than two dollars a day, are transformed as the entire community participates in the success of the local electrical business and profits are reinvested in community empowerment through economic development and education.

IMPACTS INCLUDE:

- >> 55,000+ people in 34 villages globally
- >> Successful pilots launched in Cameroon, Haiti, India, Kenya, Nigeria and South Sudan
- >> Enable access to basic electrical services for 50 million people by 2020.





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IEEE FOUNDATION GRANTS PROGRAM

The IEEE Foundation's Grants Program complements the Signature Programs.

Each year, IEEE units are invited to submit grant applications for projects that address a designated strategic need. It is designed to facilitate wide participation from the technology professions and elicit a rich array of applications for innovative and promising IEEE unit grassroots projects.

IMPACTS INCLUDE:

- >> Fuel technology's future and build a technologically literate society
- >> Inspire young girls to consider careers in engineering
- >> Unravel the mysteries of Smart Grid for the general public.

Gifts to the IEEE Foundation provide the resources needed to strengthen IEEE's ability to advance technology for humanity. The Development staff stands ready to assist you in structuring a gift that matches your objectives and provides the greatest impact..



Few tools for change rival the power of technology;
philanthropy is one of them.

*Philanthropy, born of shared vision and generosity,
is a potent form of energy – one that sparks transformative change.*

Through philanthropy, we turn possibility into reality.

*Make even a modest philanthropic investment in a promising
young person, and a life is changed forever. Invest in a teacher or a
technologist who proposes a solution to a well-defined problem, and
a world of possibility unfolds.*

There is nothing more rewarding.

*IEEE is home to the world's leading technology visionaries and
problem-solvers. With your support, The IEEE Foundation will
deploy those resources wherever they are most needed – addressing
the critical challenges of the 21st century.*

Join us in advancing technology for humanity.



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