



IEEE *emeritbadges* Project Vision 2017



ENERGIZING GLOBAL YOUTH TOWARDS "STEM" CAREERS

ESTABLISHED IN 1981

The IEEE *emeritbadges* Project is a global STEM education program for boys and girls. *emeritbadges* will operate the 2017 National Jamboree's Electricity Merit Badge Booth and the Electronics Merit Badge Booth at the Summit Bechtel Reserve in West Virginia.

The IEEE *emeritbadges* Project plans to:

- Teach the Electricity Merit Badge and the Electronics Merit Badge during the Jamboree,
- Operate a Careers booth with the goal of introducing visitors to STEM related careers,
- Participate in Day of Service in communities near the Jamboree,
- Use the IEEE-USA MOVE vehicle to show visitors how technology can help people during disasters,
- Operate a demonstration booth to provide visitors an awareness and understanding of technology and its impact on society,
- Create short films with the theme "Raise awareness and understanding of technology and its impact on society" in cooperation with the Moviemaking Merit Badge booth,
- Create trading cards to provide awareness and understanding of technology, historical technologists, and humanitarian needs,
- Translate instructional material into Spanish, Vietnamese, French, and educational languages used in Sub-Saharan Africa, Indonesia and the Philippines.

emeritbadges will also operate social media and website channels to publicize activities and engage a broad audience to publicize the event and activities.

VISION

The IEEE *emeritbadges* Project is a global STEM education program for boys and girls. The project, with its thirty volunteers, will increase the public awareness and understanding of technology and how it can be used to benefit humanity, primarily to boys and girls at the middle school and high school levels at the 2017 National Jamboree.

emeritbadges GOALS

Technology Pipeline

- Provide Electricity & Electronics Merit Badge training.

STEM

- Promote awareness and understanding of technology and STEM related careers.
- Incorporate need for critical/computational thinking in technological innovations.

Global

- Translate instructional material into Spanish, Vietnamese, French, and educational languages used in Sub-Saharan Africa, Indonesia and the Philippines.
- Encourage participation of international contingent scouts in booth activities.
- Promote project vision on the project's social media platforms and website.
- Provide each IEEE Region with instructional material and kits for use in their local area.

Diversity

- Encourage girls attending the Jamboree to participate in booth activities.

Humanity

- Participate in Jamboree Day of Service in nearby West Virginia communities with IEEE MOVE Community Outreach Project vehicle.
- Use the IEEE MOVE vehicle to show visitors how technology can help people during disasters and to assist with STEM related activities

Awareness & Understanding

- Support of the Moviemaking Merit Badge participating youth to prepare short film with the theme "Raise awareness and understanding of technology and its impact on society".
- Create trading cards to create awareness and understanding of technology, historical technologists, and humanitarian needs.



emeritbadges OPERATIONAL OVERVIEW

ELECTRICITY MERIT BADGE

Provide Electricity Merit Badge training, counseling and activities sufficient to allow the participant to earn the badge within a four-hour time commitment.

- Promote awareness and understanding of technology and STEM related careers.
- Discuss role of diverse groups in technological innovations.
- Provide alternative energy kits that participants will construct and take home.

CAREERS STATION

Provide technology careers information to Jamboree participants and visitors. The IEEE REACH (Raising Engineering Awareness Through the Conduit of History) will also be used to show the relationship between engineering and humanity.

ELECTRONICS MERIT BADGE

Facilitate earning the Electronics Merit Badge via onsite training and testing, providing participants with a visible goal to achieve that not only introduces electronics but provides them with a merit badge. Do this within a commitment of no more than four hours.

- Promote awareness and understanding of technology and STEM related careers.
- Discuss role of diverse groups in technological innovations.
- Provide microprocessor controlled counter kits that participants will solder together and take home.

DEMONSTRATION STATION

The Demonstration Station will demonstrate technologies that can address global humanitarian needs such as reliable sources of energy, clean drinking water, improved health care, and food shortages.

SPECIAL EXHIBITS & EVENTS

The IEEE USA's MOVE vehicle, IEEE-USA's Community Outreach Initiative (The MOVE Project), will be an integral part of the booths. The MOVE vehicle offers a mobile emergency relief program committed to assisting victims of natural disasters with short-term communications, computer, and power solutions. Our project has offered to assist with the Jamboree Day of Service project in communities near the Jamboree in West Virginia.



AUDIENCE

The primary audiences are middle school and high school youth, boys and girls, and adults attending and visiting the 2017 National Jamboree from the USA and several global countries.

Participants & visitors include:

- Middle School & High School Boys & Girls
- Participants from USA & all 10 IEEE Regions
- Adult Staff
- Global Visitors
 - Parents
 - Teachers
 - Media
 - Government & Industrial Leader

NEEDS

- Total Project Funding - \$116,300
- Thirty volunteer staff positions are allocated to the Electricity and Electronics Merit Badge booths. Our team needs:
 - Electricity & Electronics Instructors
 - Careers Coordinator
 - Demonstrations Coordinator
 - Public Relations & Social Media Coordinator
 - Facilities Coordinator
- Inexpensive Storage Space – 275 Sq. Ft.

SPONSORSHIP NEEDS

- ELECTRONICS MERIT BADGE KITS.
- ELECTRICITY MERIT BADGE KITS
- VOLUNTEER REGISTRATION
- BOOTH FLOOR (40 ft x 40 ft)
- IEEE MOVE VEHICLE SUPPORT
- CAREERS BOOTH
- DEMONSTRATION BOOTH EQUIPMENT
- PATCHES
- STAFF T-SHIRTS
- PRINTING
- PROMO HANDOUTS
- WEBSITE UPDATE

CONTACT

Ralph W. Russell, II
 Chair – IEEE emeritbadges Project
emeritbadges@ieee.org
 +1 804 291 7667