Volunteer STEM Portal

Join our PreU Team
IEEE Global Communities

Engage and Impact as Many Students as Possible

Centralized resource for operating units and volunteers to drive STEM activities
Why this portal and why now?
IEEE STEM Education – A Fragmented Landscape

There are many volunteer-led pre-university activities happening globally, but…

We do not know collectively what is being done across the institution. There is no:

* Central place for volunteers to **SHARE** their effective programs with each other
* Central set of STEM education **RESOURCES** from IEEE that volunteers can draw from when developing local STEM programs
* **OUTCOME & IMPACT DATA** of our collective IEEE STEM efforts
Volunteer STEM Portal

The Volunteer Pre-University STEM Portal is a centralized resource for operating units (i.e., student branches, chapters, sections, technical societies, etc.) and volunteers where you will have access to a searchable library of STEM programs and activities along with “how-to” resources in order to facilitate the execution of these pre-university STEM programs.

The STEM portal leverages the reach of IEEE’s global communities and volunteers in order to engage as many students as possible in pre-university STEM activities.
IEEE’s Role: Social Responsibility

Mission:
Providing opportunities and resources for volunteer generated STEM activities to impact as many students as possible

Vision:
Youth Will See Themselves as Someone Who Can Improve the World Through Engineering
Benefits for IEEE Volunteers

**Volunteer Opportunities**
Find STEM volunteer opportunities in your local section/region; Develop local STEM education communities

**Access to Resources**
Find resources from other IEEE volunteers and partners to start or improve local STEM programs

**Recognition**
Gain recognition for outstanding STEM programs your Section has developed

**Greater Impact**
Consolidates volunteer STEM efforts in one place for greater access, visibility and impact measurement
IEEE is uniquely positioned to leverage its own assets

- With TryEngineering, EA becomes a STEM Facilitator
- Embraces IEEE’s communities around the globe
  - Members in 160+ Countries
  - 339 Sections
  - 3284 Student Branches
  - 250+ HKN Chapters
  - 39 Technical Societies
- Employs the power of IEEE volunteer expertise, experience and reach
The Envisioned Future

IEEE’s Global Communities: Engaged in Pre-University STEM Activities

Mobilizing the global reach of IEEE to *impact as many students as possible* with hundreds of STEM activities offered each year!
Portal Development Timeline

1. **January 2020 – July 2020 (DEVELOP) Completed**
   2020 Project Plan developed, committees kick off, programs identified, program rubric & impact survey developed, communication plan developed, portal developed

2. **July 2020 – November 2020 (DEVELOP & TESTING)**
   Finalize portal development and test functionality

3. **November 2020 - January 2021 (FEEDBACK)**
   Volunteer user experience testing, final updates and marketing and promotion, special testing group

4. **January 2021 (LAUNCH)**
   Portal launch, special testing group
What features will the STEM Portal include?

- Search for a Program
- Submit a Program
- Share your Impact
- Apply for a Grant
- Resources

New “Volunteer: STEM Portal” entry point on the TryEngineering.org main page
Volunteer STEM Portal Landing Page (open to public)

Program Categories (same in vTools):
- Camp
- Career Day
- Competition/STEM Fairs
- Girls in STEM
- Industry/Company Tours
- Mentoring
- Parent Program
- Student Workshop
- Teacher Workshop

vTools “Pre-U STEM” Events Feed at Bottom
Sample Program Page (open to public)
How to Use the STEM Portal

- Review the program categories and conduct a search of programs available
- Decide on a program most suitable for your unit/community
- Review the program description and check out the available materials on the “Resource Page”
- Develop your program (volunteers, timeline, budget, logistics, etc.)
- Review the IEEE Guidelines and Procedures for Working with Children and register your program
- Post your event to vTools Events
- Implement the program
- Conduct participant survey
- Share your impact in vTools Events
- Submit your program to the portal
Join The Team
Join the PreU STEM Team

SHARE your great programs, knowledge, insights, and experience with other volunteers

SUBMIT YOUR PROGRAM

PARTICIPATE in our pilot. If you are not currently doing STEM outreach or if you have done STEM outreach we need your engagement and feedback.

PILOT: January – August 2021
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