



**STEM
Portal**

Volunteer STEM Portal

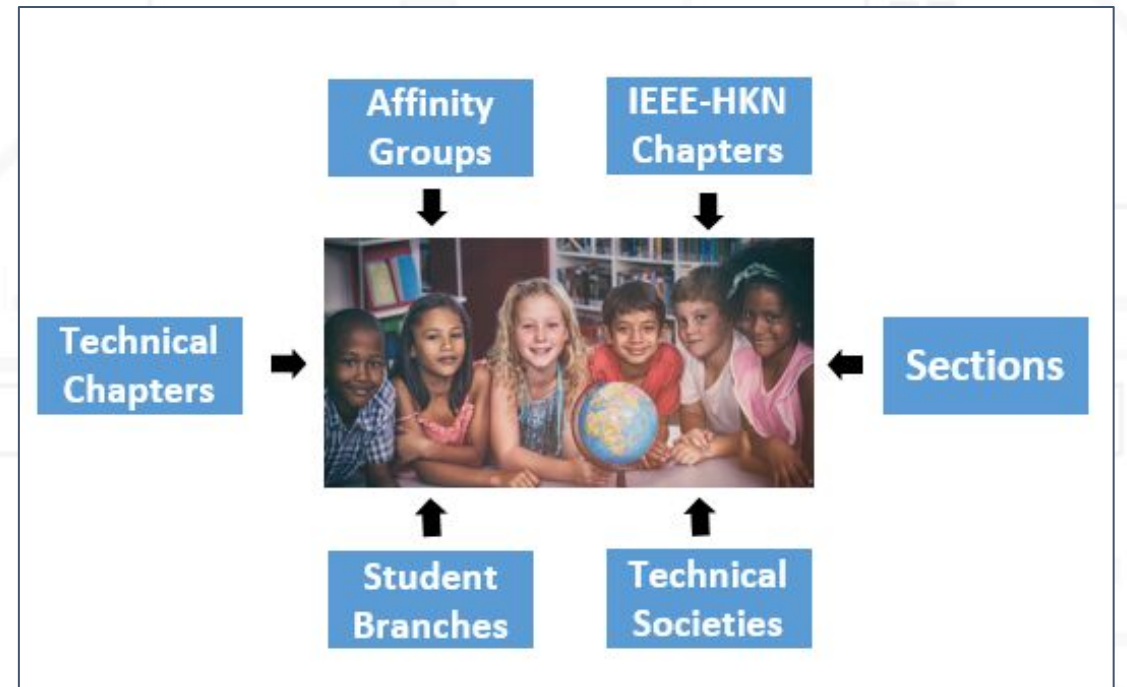
Join our PreU Team

IEEE Global Communities

Engage and Impact as Many Students as Possible



Centralized resource for operating units and volunteers to drive STEM activities



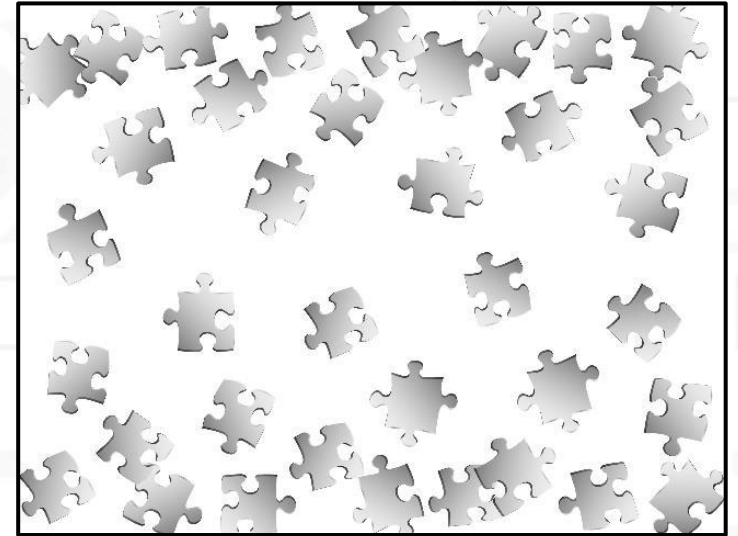
Why this portal and why now?

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



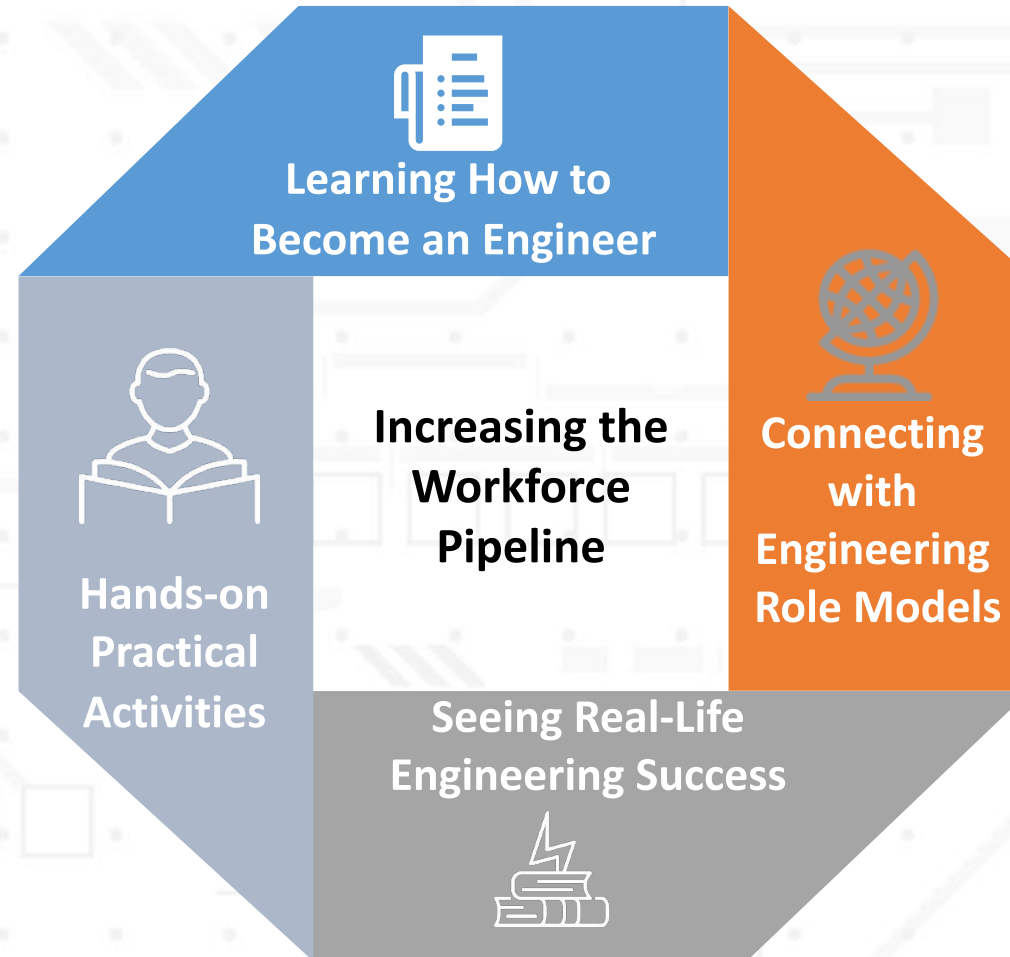
The **Volunteer Pre-University STEM Portal** is a centralized resource for operating units (i.e., student branches, chapters, sections, technical societies, etc.) and volunteers where you will have access to a searchable library of STEM programs and activities along with “how-to” resources in order to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

A Shift in Strategy



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



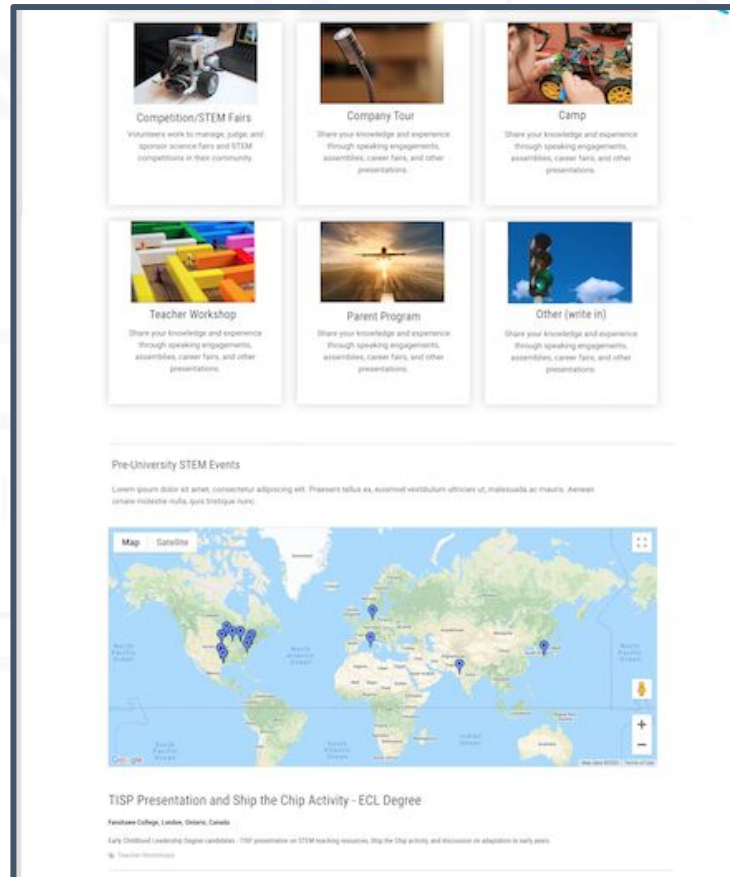
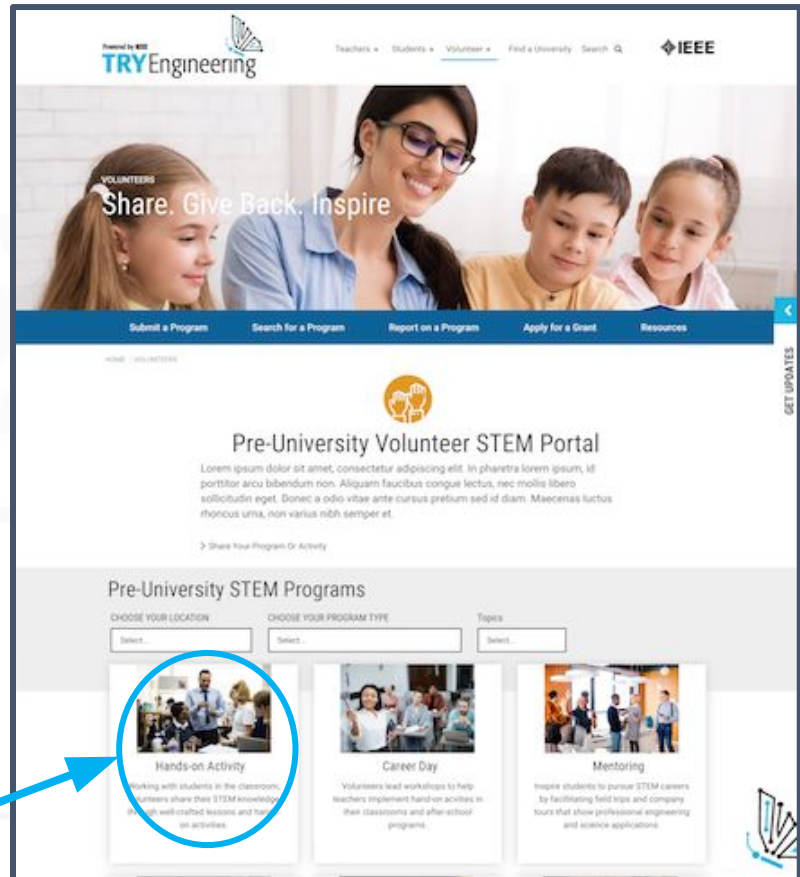
What features will the STEM Portal include?

- 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)

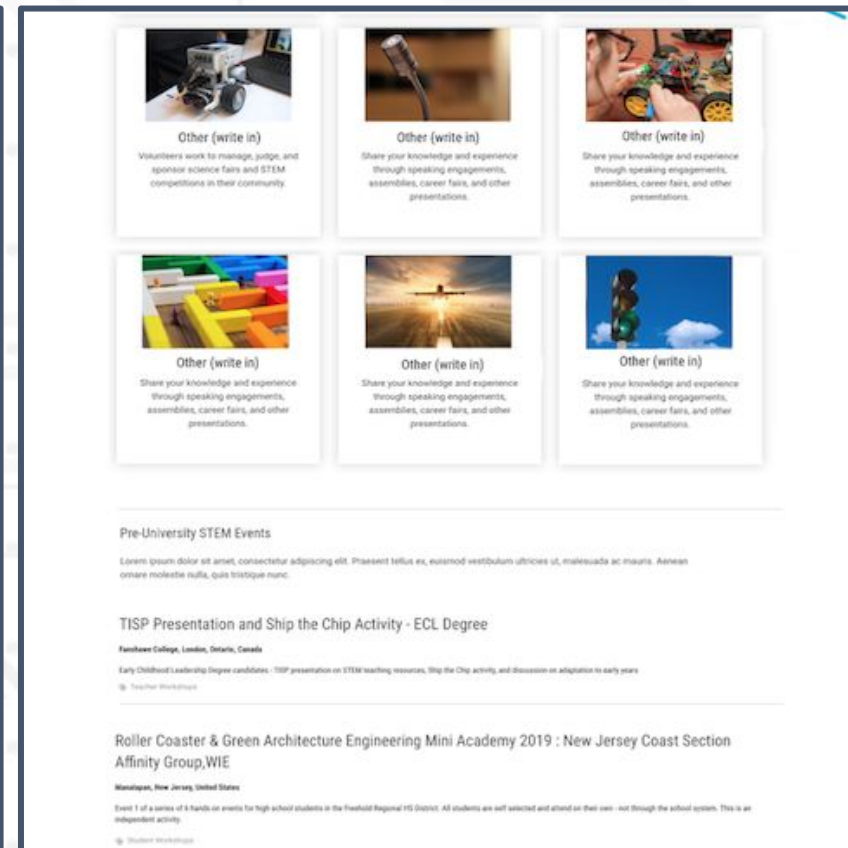
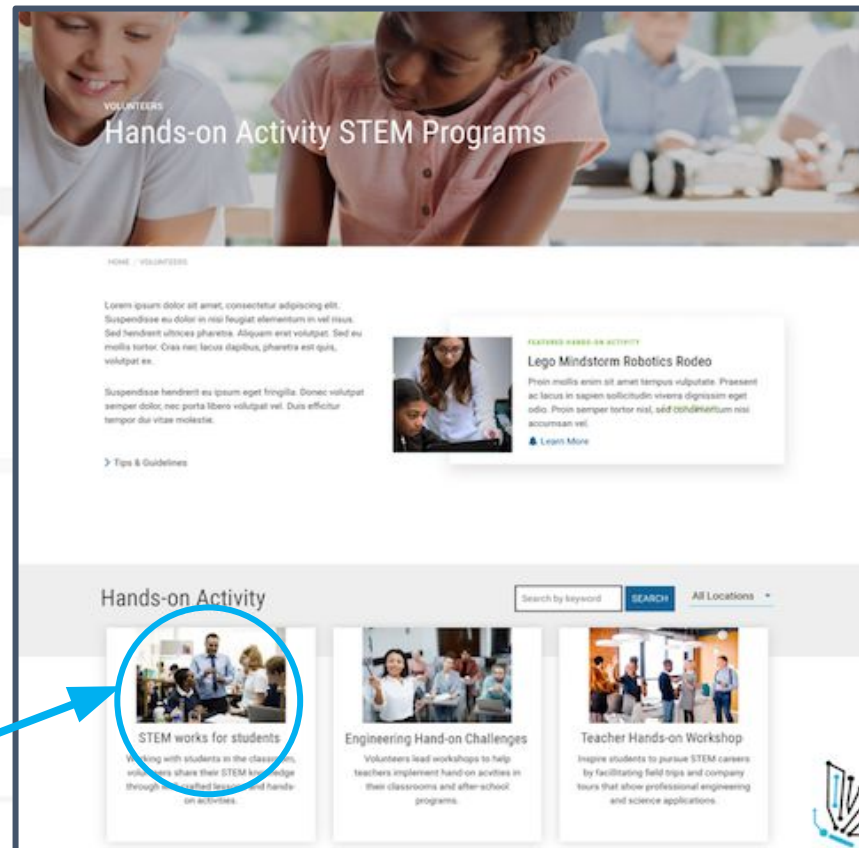


Program Categories (same in vTools):

- 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 Category Page (open to public)



Sample Program Page (open to public)

VOLUNTEERS

Engineers Demonstrating Science: an Engineer Teacher Connection

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Engineers Demonstrating Science: an Engineer Teacher Connection
The goal of the program is to enable IEEE members to visit local schools or host events designed to engage young students in the field of electrical engineering. By utilizing the easy-to-use (Dino's Snap Circuits®) kits, students learn about electronic circuits using a "hands-on" approach to experience the exciting and creative field of electronics. The society hopes to encourage young students to consider electrical and electronic engineering as a career. The kits, along with our members' expertise are used to demonstrate the many applications of circuits.

Share this:

 **VIRTUAL EVENT**

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

FOR MORE INFORMATION: Contact Dawna Schultz at d.j.schultz@ieee.org