



IEEE Region 5 EXCOM, STEM Grants

17 NOV 2025

*Dr John Santiago,
Past Section Chair (Jan 2019-Feb 2023), Webmaster, 2025 STEM Champion*

2025 STEM Grants Results

2026 Applications for STEM Grants are OPEN

- ▶ 58 funded out of 416 applications
 - [Make an Impact with an IEEE TryEngineering STEM Grant | IEEE Foundation](#)
 - [STEM Grants Program Spotlights - TryEngineering.org Powered by IEEE](#)
- ▶ Contact Form about 2026 STEM grant you can get access at
 - <https://r5.ieee.org/pikespeak/2025-Grant-Report>
 - Prompt: Use attach to generate 2 STEM Proposals for 2026 ready to submit online.
- ▶ Region 5's low participation suggests untapped potential and a significant opportunity to grow section vitality by formalizing a replicable grant submission culture.

IEEE Region	# of Grants	Total Awarded (USD)
1	3	\$4,500
2	2	\$3,000
3	2	\$3,500
4	2	\$3,500
5	1	\$2,000
6	3	\$4,000
7	1	\$1,000
8	4	\$6,000
9	5	\$8,000
10	35	\$34,879
Total	58	\$70,379

2025 STEM Grants Results

2026 Applications for STEM Grants are OPEN

- ▶ **Application window opens:** 1 November 2025
- ▶ **Deadline to apply:** 2 January 2026 at 11:59 pm ET
- ▶ Start leveraging the IEEE Engineering Resources
- ▶ Opportunities for Section Collaboration
 - High Plains is currently leveraging the lessons learned from IEEE Pikes Peak Section
 - Kansas City Student Branch is inquiring about our AI activities in STEM (Xtreme Hackathon)
 - Denver Section: Collaboration on WIE STEAM/STEM Initiatives
 - SRI Lanka Section: Invited speaker on IEEE History, My IEEE Journey

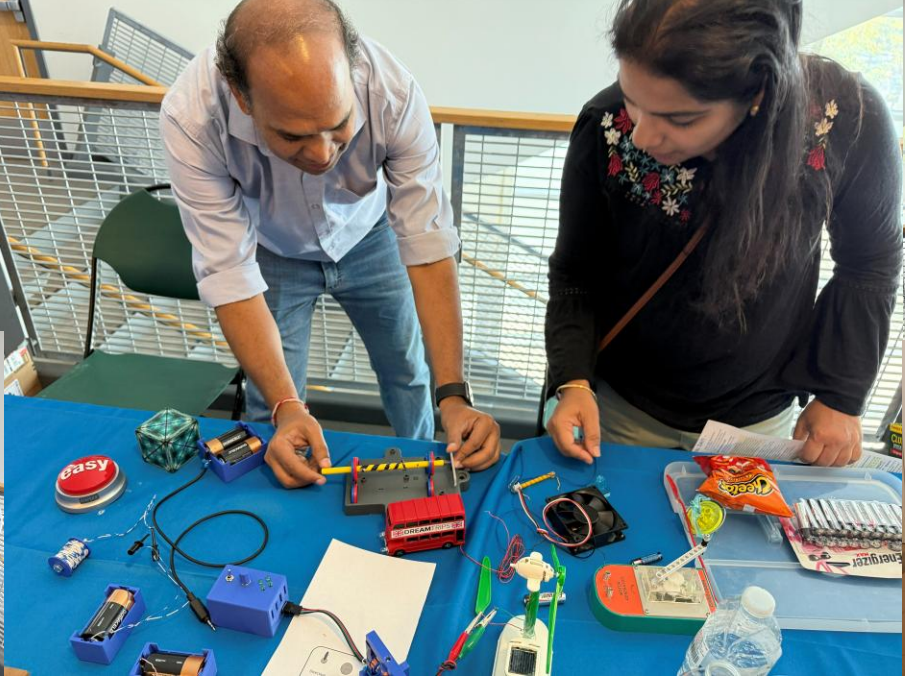
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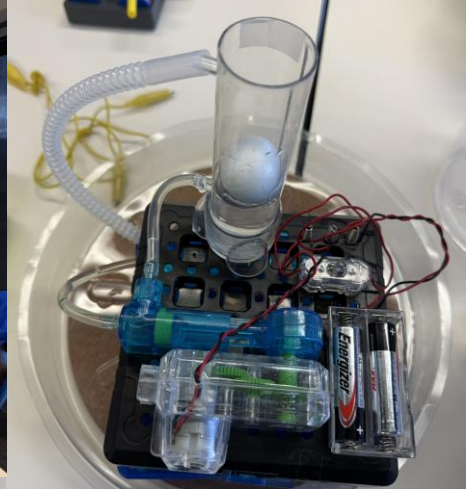


27 Sep 2025, Cool Science Carnival Day
8000 + visitors, 100+ Booths



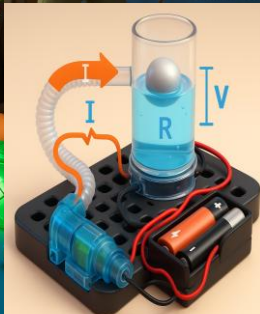
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29 Sep & 6 Oct Cool Science Festival
21st Century, 17 family members





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2025 STEM Grant Report

- ▶ STEAM-TEAMS
- ▶ AI-Assisted Multimedia
- ▶ Leadership Integration



2025 STEM Grant Report

- ▶ Living STEM ecosystem
- ▶ AI-assisted multimedia
- ▶ Community-centered outreach



Grant Overview

- ▶ Aligned with IEEE Region 5 Priorities
- ▶ Supports underserved communities
- ▶ Integrates leadership + STEM



Program Activities

- ▶ Cool Science Carnival Day
- ▶ Monthly STEAM-TEAMS
- ▶ Filipino Community of Southern Colorado (FACSC) Outreach
- ▶ Invited Speaker, Sri Lanka Student Branch, IEEE Day



Program Activities

- ▶ Cool Science Carnival Day
- ▶ Monthly STEAM-TEAMS
- ▶ FACSC outreach



AI-ASSISTED MULTIMEDIA

- ▶ Pixar-style visuals
- ▶ Camtasia modules
- ▶ Interactive metaphors



Leadership Integration

- ▶ PyramidX-OS
- ▶ Animal Pyramid
- ▶ KEEN 6Cs



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Mentorship Tree

- ▶ Life Members →
YPs → Students
→ K-12 & Parents
- ▶ Multi-generation
approach



DOCK Kits

- ▶ DOCK = Deployable Outreach Community Kits
- ▶ Portable STEM classrooms
- ▶ Hands-on demonstrations



Impact and Metrics

- ▶ 8,000+ event attendees
- ▶ FACSC Coronation Ball: 178+ attendees
- ▶ FACSC Picnic: 200+ attendees
- ▶ 33 new leads w/IEEE STEM Summit Booth, 65% conversion (interested emails/visitor)
- ▶ Increased IEEE visibility and public awareness





Templates & kits
Cross-sectional
collaboration

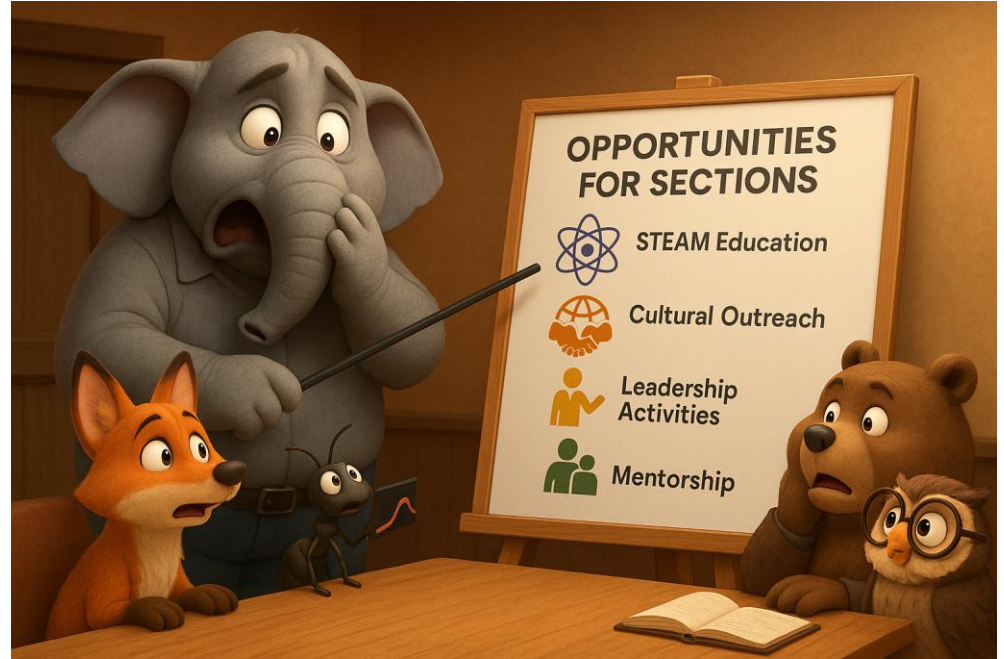
Opportunities for Sections to Cross Collaborate

- ▶ Templates & kits
- ▶ Cross-sectional collaboration



Opportunities for Sections

- ▶ Templates & kits
- ▶ Cross-sectional collaboration



Elephant mis-clicks a chart and panics
Elephant: *"Oh no... where did the slide go?!"*

Vision

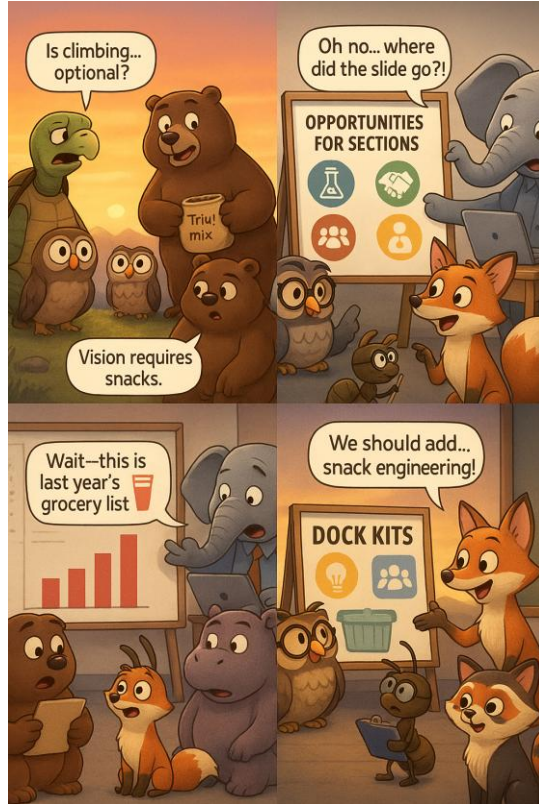
- ▶ Regional STEAM-TEAMS network
- ▶ Global IEEE adoption



Vision



Bloopers – 2.5 Pixar



Bloopers – 3D Pixar



Next Steps

- ▶ Expand DOCK
(Deployable Outreach
Community Kits –
Portable STEM demos)
- ▶ Publish findings
- ▶ Strengthen pipelines



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BACKUP SLIDES

STEAM-TEAMS

- ▶ **Model 1: Multi-Section “STEAM-TEAMS Regional Cohort”**
- ▶ **Lead Section:** Pikes Peak
Partner Sections: 2–8 Sections across Region 5 (e.g., Denver, High Plains, Ozark Section, Dallas, Houston, St. Louis)
- ▶ **Structure:**
 - One unified proposal with **one curriculum, shared AI multimedia, and local delivery.**
 - Each Section adopts 1–3 STEAM-TEAMS.
 - Shared reporting + shared AI content portal
 - Industry Sponsor on Senator Lambert’s Dissertation Committee, Distributed Ledger Technology (DLT, Blockchain/Bitcoin).



STEAM-TEAMS-Challenge: 1 Mentee / Year

- Multi-year mentorship program leveraging STEAM as a center-of-gravity to work towards Region 5 priorities
- One mentee/per year for each active member in the section
- Example: remote mentoring over 1 year
- STEAM Activities:
 - 4 LM going to CSU Pueblo to over 30 students
 - Meetings revealed many STEM-supported activities. Mikkelson Foundation, Cool Science Director, D-38 Program
 - FACSC, Sri Lanka, AI-Assisted model



IEEE STEM Summit 2025 Booth

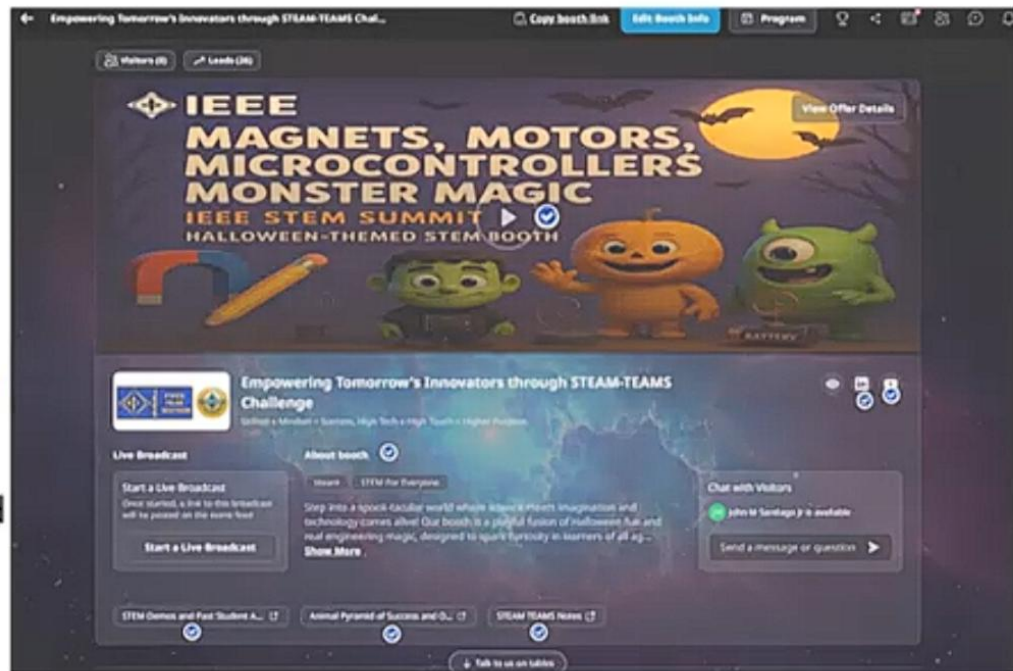
23-24 October

▶ STEM Summit Stats

- 996 participants, 2,810 registrants, 35% turnout, 1,972 chat messages, 9,872 emojis used and 130 countries represented

▶ IEEE Region 5 STEM Summit and Interactive booth

- Rep for Region 5 Educational Activities and Pikes Peak Section
- 50 % conversion rate (33 leads/65 unique visitors at booth with AI-assisted multimedia and Pixar-style animation/video content)
- Booth Mockup at PPS website
- <https://r5.ieee.org/pikespeak/pyramid>



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