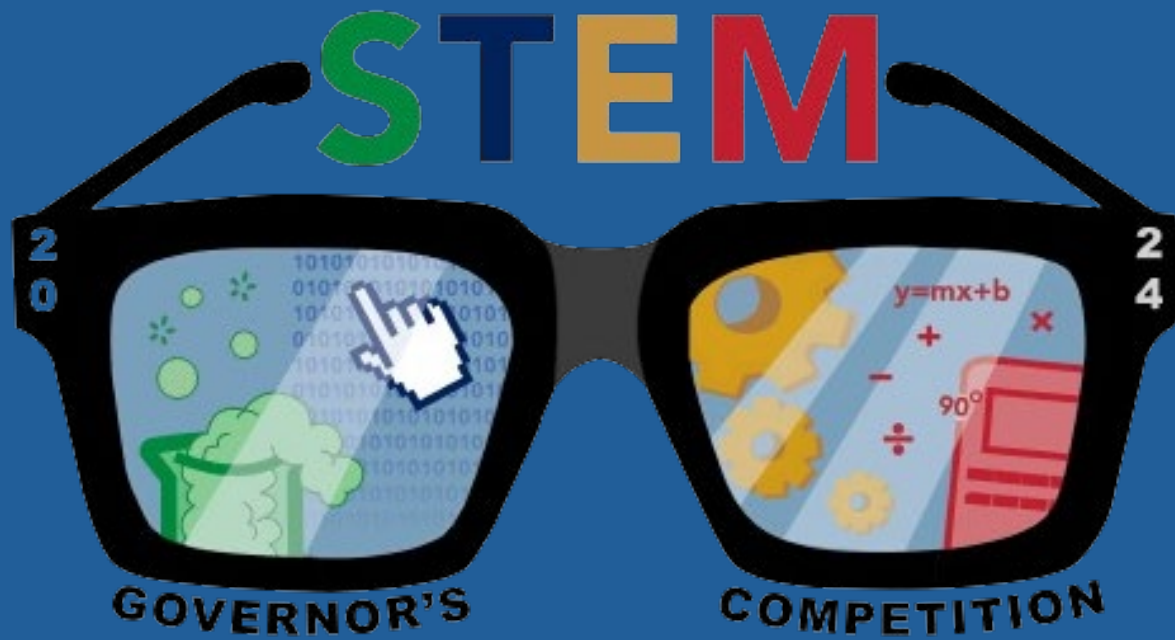


2024 Edition



Envisioning the Future

*A Complete Overview:
Celebrating Innovation and Achievement*

Table of Contents

Participating Teams 3

Winning Teams: Prototype Submissions 5

Showcase of Digital Creativity: Non-Competitive 6

Logo Participants 7

Industry Expert Judges 9

Esteemed Speakers 10

Participating Industry Partners, Colleges, and Universities 11

Acknowledging Our Sponsors 12

Interested in participating in the 2025 Governor's STEM Competition? 13

Calling All Volunteers! 14



Participating Teams

School District (LEA)	School Name	Primary Advisor	Division
Bethlehem-Center School District	Bethlehem-Center High School	Dawn Logan	1
Boyertown Area School District	Boyertown Area Senior High	Joshua Pennington	1
Lower Dauphin School District	Lower Dauphin High School	Elizabeth Kirman	1
Parkland School District	Parkland High School	David Wacker	1
Shippensburg Area School District	Shippensburg Area High School	Mylinda Fowler	1
Wilson School District	Wilson High School	Beth Levan	1
Wyoming Area School District	Wyoming Area Secondary Center	Trudy McAndrew	1
Archdiocese of Philadelphia	Bishop Shanahan High School	Mark Mykytiuch	2
Carlisle Area School District	Carlisle High School	Matthew Freeman	2
Chester County IU	Technical College High School Brandywine	Elizabeth Crockett	2
Council Rock School District	Council Rock High School North	Stacey Gould	2
Dayspring Christian Academy	Dayspring Christian Academy	Mary Stauffer	2
Delaware Valley School District	Delaware Valley High School	Robert Curtis	2
Donegal School District	Donegal High School	Brooke Frederick	2
Dover Area School District	Dover Area High School	Brian Bahn	2
Downingtown Area School District	Downingtown STEM Academy	Eric Brown	2
Exeter Township School District	Exeter Township Senior High School	Zach Potter	2
Fox Chapel Area School District	Fox Chapel Area High School	Lisa Gibson	2
Glendale School District	Glendale High School	Ethan Maneval	2
Glendale School District	Glendale High School	Nancy Gobert	2
Hatboro-Horsham School District	Glendale High School	Ethan Maneval	2
Highlands School District	Hatboro-Horsham High School	Kimberly English-Murphy	2
Lower Moreland Township School District	Highlands High School	Catherine Stack	2
Merion Mercy Academy	Lower Moreland High School	Nick Solomon	2
Midd-West School District	Merion Mercy Academy	Ben York	2
Monroe Career & Technical Institute	Midd-West High School	Matthew Dietz	2

School District (LEA)	School Name	Primary Advisor	Division
Neshannock Township School District	Monroe Career & Technical Institute	Ross Ruschman	2
North Allegheny School District	Neshannock Jr/Sr High School	Mr. Gregg Micsky	2
Shamokin Area School District	North Allegheny Senior High School	Christina Ruffolo	2
Home School	Shamokin Area High School	Laura Suchanick	2
South Fayette Township School District	South Fayette High School	James Hausman III	2
South Park School District	South Park High School	Eric Wisler	2
Southern York County School District	Susquehannock High School	JC Lewis	2
Southern York County School District	Susquehannock High School	Tyler Martin	2
The Pennsylvania Cyber Charter School	The Pennsylvania Cyber Charter School	Tom Brambley	2
Tunkhannock Area School District	Tunkhannock Area High School	Andrew Neely	2
Tunkhannock Area School District	Tunkhannock Area High School	Robert Hug	2
Valley View School District	Valley View High School	Brandon Dodson	2
Whitehall-Coplay School District	Whitehall High School	Justin Boardl	2
William Penn School District	Penn Wood High School	Benny Joseph	2
Wyomissing Area School District	Wyomissing Area Jr/Sr High School	Brian Liskey	2



Winning Teams: Prototype Submissions

We extend our heartfelt thanks to our advisors and student teams for their unwavering commitment and hard work. Additionally, we shout a resounding "Congratulations" to our winning teams for Division 1 and Division 2.

Placement	Division 1: Returning Team	Division 2: New Team
Grand Champions	Parkland High School	Simmons Academy
1st Place	Lower Dauphin High School	North Allegheny Senior High School
2nd Place	Wyoming Area Secondary Center	Bishop Shanahan High School
3rd Place	Boyertown Area Senior High School	Council Rock High School



Showcase of Digital Creativity: Non-Competitive

Take a look at the digital poster submissions from 2024, each accompanied by a hyperlink for detailed viewing. These entries, representing various STEM programs, clubs, and courses, offer a glimpse into the efforts of our students. Each poster reflects the commitment of our scholars to their STEM pursuits and provides a platform for future participants to consider contributing their own work.

2024 Governor's STEM Competition

Engineering Design Process: The Basics

FOX CHAPEL AREA HIGH SCHOOL
Pittsburgh, PA

2024 Governor's STEM Competition

LEARNLANDIA
SYSTEMS MODEL, WITH 2D, 3D, AND 4D

Can we make a playground for adults so that they can have fun while learning?

RESEARCH
Each learner made 2-3 topics to research about... We looked about components, staffing needs, and budgeting...

IMAGINE
Each student made their dream playground. We designed them on paper or using the structure playground design tool. After we were finished we shared our designs with the class.

PLAN
After hearing about everyone's dream playground, we took everyone's favorite ideas and put them together. Then we drew our plan on sheet paper.

CREATE
To make our model, we used Legos, cardboard, paper, craft sticks, toilet paper rolls, foam, and a balloon. We split up the parts and used rulers to measure how big our areas should be. Making the model was everyone's favorite part of the project!

TEST
TOOK OUT THE MODEL
Click the picture above for a tour of our park!

IMPROVE
While we worked on this project, we kept a journal. We were able to write down our questions, ideas, and pictures so that we could make our project better.

Intermediate Unit 13
Lancaster, PA

2024 Governor's STEM Competition

Bishop Shanahan STEM: Shaping the Innovators of Tomorrow

What is STEM at BSHS?

BISHOP SHANAHAN HIGH SCHOOL
Downingtown, PA

2024 Governor's STEM Competition

Agriculture: The Real 'A' in STEM

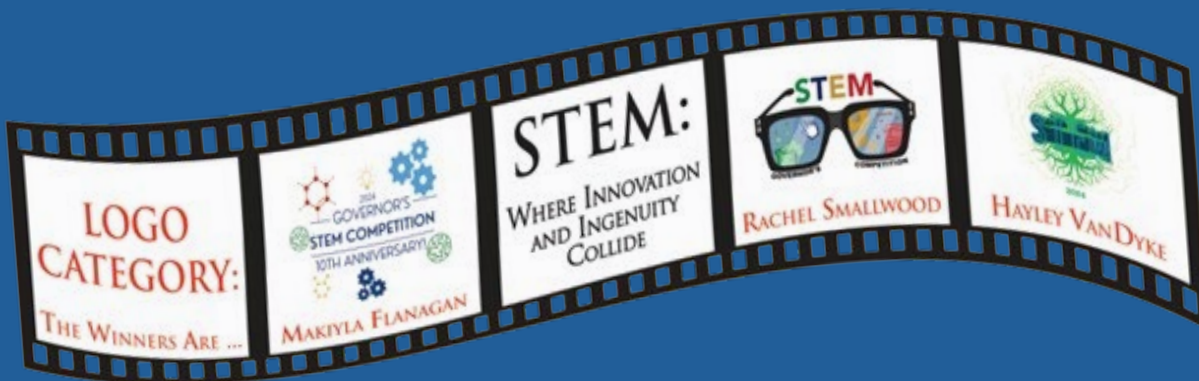
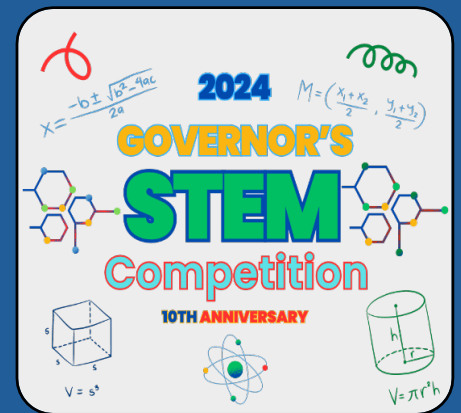
MONROE CAREER & TECHNICAL INSTITUTE
Bartonsville, PA

Logo Participants

School District (LEA)	Advisor	Student Name
Central Dauphin School District	Mahala Sam-Clarke	Odren Polk
Cocalico School District	Samuel Popiel	Matthew Roslevege
East Stroudsburg Area School District	Keisha Agard-Thomassine	Alijah Cortes Britney Chabla Darrius Gage Ethan Dina Jessi Davila Joaquim Jn. Baptiste Rachel Smallwood Seth Robles Za'Haura Branche Zane Pardo
Forest Area School District	Michelle Mazur	Addyson Neill Adrian Potter Alanah Wagner Alison McLaughlin Christopher Hoovler Coltin Carr Danielle Davis Ezra Miles Hayley VanDyke Johnathan Bowser Karlee Shaffer Lillian Spence LJ Marzka Logan Kline Logan Stevenson Maddie Schmitt Miles Romano Nevaeh Peace Robert Payne Ryelee O'Connor Sebastian Wise Serenity Warnsing Skivan Ribeiro Stevie Rolick Vincent Carey Zach Walton
Forest Hills School District	Dr. Jennifer Motter	Nathaniel McFarland Morgan Miller

School District (LEA)	Advisor	Student Name
School District of Lancaster- IU13	Lawrence Bopp	Bailey Miller Emmanuel Carrillo Moreno HanZhao Yang Kristopher Siegrist Mia Boldin Micah Maldonado
Jefferson County-Dubois Area Vocational-Technical School	Steve Sensebaugh	Baylee Moore
Lower Dauphin School District	Elizabeth Kirman	Braylee Klinger
Philadelphia Academy Charter School	Kathryn Asher	Gianna Gerace Jordan Brennan-Melo Makiyla Flanagan Matthew Grffin Robert Manuel
South Park School District	Eric Wisler	Taylor Lowmiller
Tredyffrin/Easttown School District	Seth Dixon	Aidan Bakker
West Shore School District	Ian Winn	Sophia Vetter Taylor Day
Whitehall-Coplay School District	Justin Boardl	Miriam Feday

The Logo Contest for the 2024 Governor's STEM Competition encourages high school students across the commonwealth in grades 9-12 to design a symbol that embodies the spirit of STEM innovation. Participants can enter both the competition and the Logo Contest, showcasing their talents in science and art simultaneously.

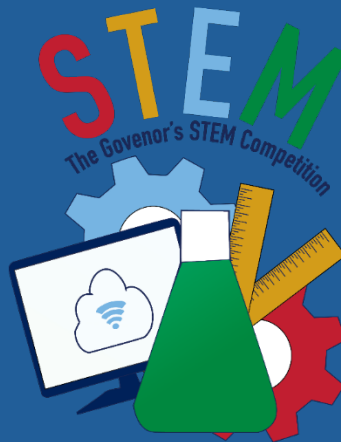


Industry Expert Judges

We want to extend our sincerest gratitude for the time and dedication all our judges have contributed to the 2024 Governor's STEM Competition. Your expertise and insights have been invaluable to the success of this event. We are truly grateful for your involvement and the impact you've made on the aspiring young minds who participated.

Alec Reinert
Alexander Gibson
Amanda J. Smith
Brittany Anderson
Cindy Sheehan-Westrick
Clarence Sasso
Craig Stonaha
Dan Tomaso
Dia Beachboard
Diane McGaffic
Dr. Hartono Tjoe
Dr. Tammy Chrin
Ed Bernitsky
Erica Ryu
Glenn Singer
Glenn Singer
Hanh Tran
Heather Heimer
Heather Lehman
Jamal Wakeem
James Gates

Jeff Beckstead
Jennifer Sciacca
Jill Foys
Joshua Slee
Julie Himmelberger
Kelly Gosnell
Kendy Schiffert
Lori Rodgers
Mary Barnette
Matt Treese
Matthew Flanagan
Matthew Swan
Melissa Day
Rich Mackrell
Sandy Shacklady-White
Steven Sheirer
Thomas Kell
Tom Esposito
Tracey Lank
Vicki Schnaars
William Troutman



Esteemed Speakers

Your words have illuminated the path for our scholars, sparking curiosity and igniting ambition within the hearts and minds of the future leaders in STEM. We are deeply thankful for the knowledge and inspiration you've imparted at the 2024 Governor's STEM Competition.



Amanda J. Smith
Penn State University
Director of K-12 Engagement



Veronica Bauscher
PhytogenX, Inc.
R&D Chemist and Innovation Team Lead



Craig Stonaha
Laughing Rock Technology
President



Toni Stuetz
Penn State University
Extension 4-H Educator

Participating Industry Partners, Colleges, and Universities

We sincerely appreciate the support from the businesses, colleges, and universities that hosted promotional tables, contributing greatly to the success of the 2025 Governor's STEM Competition. Thank you for your invaluable partnership.



Wilkes University
University in Pennsylvania



DESALES
UNIVERSITY



Millersville
University



Pennsylvania Governor's
School for the Sciences

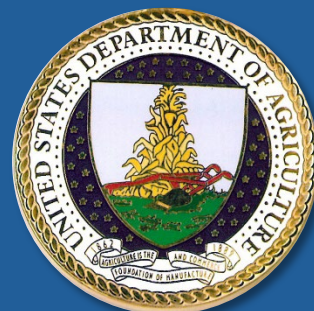
proudly hosted by **Carnegie Mellon University**



HARRISBURG
UNIVERSITY
OF SCIENCE AND TECHNOLOGY

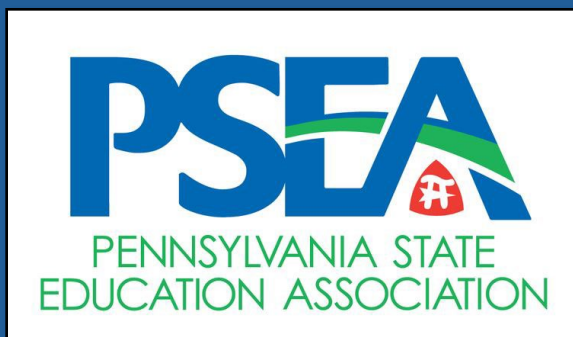
nUPATHS

Cofounded by Harrisburg University



Acknowledging Our Sponsors

We are immensely grateful for your generous contributions that have significantly enhanced the 2024 Governor's Competition. Your support has not only provided our STEM scholars across the Commonwealth with remarkable awards but also enriched their competition experience. Your kindness has left a lasting impression on our young scholars, and we are truly appreciative of your involvement.



Interested in participating in the 2025 Governor's STEM Competition?

Students in grades 9-12 across Pennsylvania, this is your chance to showcase your skills and creativity!

Choose from two exciting options:

Competitive Option A: STEM Prototype or Device with Digital Poster

- Research, design, and present a prototype that can improve the quality of life for Pennsylvanians, focusing on Universal Design principles.
- Submit a video presentation and digital poster explaining your innovative solution.
- Top projects will be recognized at the in-person State Finals!

Non-Competitive Option B: Digital Poster

- Highlight how your school's STEM education has inspired you by creating a digital poster.

Visit [The Governor's STEM Competition](#) for more details on how to get involved or email govstemcomp@pattan.net.



Calling All Volunteers!

We need your support to make this event a success. Get involved as:

Judges

- Evaluate the creative prototypes using our comprehensive rubrics.
- Opportunities for virtual and in-person judging available.

Businesses, universities, colleges, and industry partners - Get involved and be part of empowering the next generation of STEM leaders!

- Provide expertise and resources
- Set up promotional booths to showcase your organization
- Inspire students about STEM careers and opportunities
- Donate swag items or in-kind donations to provide a lasting reminder of the exciting and innovative spirit of the competition.

Join us in empowering the next generation of STEM leaders!

Visit [The Governor's STEM Competition](https://www.governorstem.com) for more details on how to get involved or email govstemcomp@pattan.net.

