

FCAHS QUEST - OCTOBER 2024



REGISTER

bit.ly/registerforcac

CREATE

An app for any platform,
using any coding language -
for a chance to have your work
displayed in the U.S. Capitol Building.



SUBMIT BY NOVEMBER 1ST, 2023

Questions? Contact the CAC:



congressionalappchallenge



CongressionalCAC



StudentSupport@CongressionalAppChallenge.us

Student teams (up to 4 members) must submit their apps through the by the October 24th deadline. Winners will be selected by a panel of judges drawn from the local community and honored during an event hosted by Representative Deluzio in Washington DC. In addition to being featured on display in the U.S. Capitol building and on the CAC website, this is also a great opportunity for students submitting college applications. For more information, visit <https://www.congressionalappchallenge.us/>

The Congressional App Challenge (CAC) is the official nonpartisan computer science competition of the U.S. House of Representatives. The CAC was launched because Congress recognized that STEM and computer-based skills are essential for economic growth and innovation. The U. S. has been falling behind on these fronts. By some estimates, the U.S. may be short by as many as 1 million programmers by 2025. These are high-paying, high-demand jobs. By encouraging and recognizing our nation's young programming talent, Congress hopes to shine a light on the growing importance of these skills. Furthermore, this nationwide effort aims to encourage middle and high school students to learn how to code by creating their own applications.

Important Dates

10/1: I Look Like a Cardiologist applications open

10/1: PA Society of Biomedical Research contests open

10/1: Applications open for University of Pittsburgh Health Career Scholars Academy

10/2: Math Madness during QRT

10/2: ASVAB testing for interested students

10/3 No School – Fall Break

10/7: Pittsburgh North College Fair at LaRoche University 6-8pm

10/8: Fox Leadership Council meeting during QRT

10/9: PSAT given to all 9th, 10th & 11th grade students – half day schedule

10/10: Math Madness during QRT

10/15: USA Mathematical Talent Search round 1 problems due

10/16: Math Madness during QRT

10/18: Field trip to the Health Care Careers Expo, 9-11:30am

10/18: Career speakers during QRT

10/23: Boo Bash

10/24: Math Madness during QRT

10/24: Congressional App Challenge submission deadline

10/25: Early dismissal – end of grading period

10/25: Powering Pittsburgh project submission deadline

10/25: Point Park Pitch Competition deadline

10/29: Aspirations in Computing application deadline

10/30: Math Madness during QRT

10/31: Lens On Litter Photo Contest Submission Deadline



Apply NOW to the *I Look Like a Cardiologist Program!*

As the leading cause of death in the United States, heart disease impacts people from every gender, race, ethnicity, and socioeconomic class so the cardiologists that diagnose, treat and manage patients with heart disease should be as diverse as the patients themselves. Unfortunately, women and people of color remain significantly underrepresented in the field of cardiology.

Experts from the UPMC I Look Like a Cardiologist Program engage with young adults from diverse backgrounds to:

- Facilitate conversation about becoming a cardiologist
- Provide mentorship and career advice
- Answer questions about the path to medical school
- Discuss the various ways cardiac issues affect our community

Students who participate in the UPMC I Look Like a Cardiologists Program will have access to:

- In-person and virtual events
- Panel discussions with cardiologists from UPMC
- Conversations with other students with similar career goals

Next Program occurs in January 2025

**The program sessions will take place virtually once a week
in January from 7p to 8:15p**

Applications will open October 1, 2024

Applications due on Friday November 15, 2024

Apply at <https://www.ilooklikeacardiologist.com/apply-now.html>



North American Computational Linguistics Open Competition

Registration Opening Soon!

NACLO was started in 2006 in order to promote Computational Linguistics and Linguistics in general in North America. This Olympiad is a contest in which high-school students solve linguistic puzzles. In solving the problems, students learn about the diversity and consistency of language, while exercising logic skills. No prior knowledge of linguistics or second languages is necessary. Professionals in linguistics, computational linguistics and language technologies use dozens of languages to create engaging problems that represent cutting edge issues in their fields. The competition has attracted top students to study and work in those same fields. It is truly an opportunity for young people to experience a taste of natural-language processing in the 21st century. Sample questions are available on the registration page: naclo.org. Students must register online for the competition.

Registration will be open soon. The competition will be held in the library classroom on January 23rd (open round). The invitational round will be held on March 13, 2025. Email Lisa_Gibson@fcasd.edu if you want to compete!

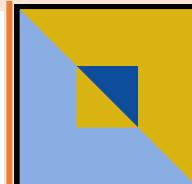
2025 North American Computational Linguistics Olympiad



USA Mathematical Talent Search

This free mathematics competition open to all middle and high school students. ROUND 1 PROBLEMS ARE NOW AVAILABLE AND DUE OCTOBER 15th!

USAMTS allows students a full month, or more, to work out their solutions. **Carefully written justifications** are required for each problem. The problems range in difficulty from being within the reach of most high school students to challenging the best students in the nation. Students may use any materials - books, calculators, computers - but all the work must be their own. The USAMTS is run on the honor system - it is an individual competition, whose competitive role is very secondary. (Although they do give prizes.) Student solutions to the USAMTS problems are graded by mathematicians and comments are returned to the students. *Their goal is to help all students develop their problem solving skills, improve their technical writing abilities, and mature mathematically while having fun.* They wish to foster not only insight, ingenuity and creativity, but also the virtue of perseverance, which is equally essential in scientific endeavors. More details and registration link are available at usamts.org



STUDENT CONTESTS

Biomedical Research Saves Lives!

Both Human and Animal

Poster Contest

Eligibility: All K-12th grade students in Pennsylvania, Delaware, and West Virginia

Details: The Poster Contest has the following themes:

- 3 R's: Replacement, Reduction, Refinement
- Advancements in Biotechnology
- Animal Research Saves Lives
- Careers in Biomedical Research
- Veterinary Advancements: Animal Research Helping Animals

Provides the opportunity to illustrate different aspects of biomedical research and science through art.

Awards: CASH PRIZES and an invitation to our Annual Awards Dinner at the Hershey Lodge in Hershey, PA on Friday, June 14, 2024.

Essay Contests

Eligibility: All 6th -12th grade students in Pennsylvania, Delaware, and West Virginia,

Details: The Essay Contest is divided into two separate contests:

- | | |
|---------------|---|
| Topics | 6th, 7th & 8th Grade = What is Biomedical Research? |
| | High School = Biomedical Research and My Life |

Learn how biomedical research, including the role of animals in research, leads to new medical treatments and cures.

Awards: CASH PRIZES and an invitation to our Annual Awards Dinner at the Hershey Lodge in Hershey, PA on Friday, June 14, 2024.

Digital Media Contest

Eligibility: All 6th -12th grade students in Pennsylvania, Delaware, and West Virginia

Theme: Biomedical Research and My Life

Details: All entries must be in a digital media format and no more than 3 minutes. Students may work as individuals or in groups of 2-5.

Awards: CASH PRIZES and an invitation to our Annual Awards Dinner at the Hershey Lodge in Hershey, PA on Friday, June 14, 2024.

Recognizes students who digitally demonstrate a connection between biomedical research and their life.

Submission Deadline: March 10, 2024

Questions?

Email contests@psbr.org or call
Lisa Cassaro, PSBR Program
Coordinator, at 717-731-3559

For more information, visit our

[Contests page](http://www.psbr.org) and click on
Poster or Essay or Digital Media
Contest



A program of: **PSBR** Pennsylvania Society for Biomedical Research

www.psbr.org



MAA AMC

American Mathematics Competitions

Have you registered yet for the American Mathematics Competition?

The American Mathematics Competition is sponsored by the Mathematical Association of America, whose goal is to identify talent and foster a love for mathematics.

Students are given 75 minutes to solve 25 multiple choice questions. The competition will take place during 3rd period in early November (date TBD) in the library. FCASD pays the fee for participants. If you would like to participate, all you have to do is email Lisa_Gibson@fcasd.edu.

**Field trip to the
Healthcare Careers Expo
9am – 11:30am
October 18th
D.L.L. Convention Center**

Explore healthcare career options by joining us for the Healthcare Careers Expo on Friday, October 18th. The bus will depart from the auditorium lobby at 9am and we will return to school around 12pm so that you can eat lunch and attend your 4th period class.

Interested students can get a permission slip in the QUEST Student Center, room 168.



Talk with an Engineer (or Engineering Student)

Are you **considering engineering or computer science** as a career? Do you have questions? We have answers!

High school students can sign up for a **30-minute virtual session** with a woman engineer or engineering student to **discuss anything STEM-career related...** preparing for college, resumes, college choices, majors/degrees, types of engineering, what engineers do, etc.

Your questions, your choice!

Now available! **Sign up with a friend** if you want to! We know sometimes it's more comfortable to have a friend with you when talking with an engineer.

Note: If signing up for you and a friend, please make sure you have your friend's name, email address, parent's name, and parent's email address before filling out the form.

Sign up here! <https://tinyurl.com/TalkEngineer>

The program is sponsored by the Pittsburgh Society of Women Engineers (SWE) section.

Contact Information: swe.pittsburgh@gmail.com



Career Speaker – QRT – October 18th

Data Science & Actuarial Science

Dr. Chris Groendyke

Director of Actuarial Science Program

Professor of Actuarial Science

Robert Morris University

Location TBD (will be announced that week)

THE WORLD NEEDS YOUR VOICE

TO INSPIRE STUDENTS
TO CHAMPION DIVERSITY
TO ENCOURAGE EXPLORATION
TO IGNITE POSITIVE CHANGE



AWARD FOR ASPIRATIONS IN COMPUTING
an NCWIT Award

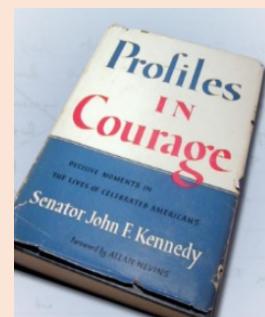
Winning an AiC High School Award not only looks great on college applications but also connects awardees to the Aspirations in Computing Community of 30,000+ technologists who share their passion, providing a supportive network and valuable connections in the tech industry.

The AiC High School Award honors 9th-12th grade women, genderqueer, and non-binary students for their computing-related achievements and interests, encourages them to pursue their passions in computing and tech, and connects them to a community of 30,000 technologists.

This award is different because it uplifts and encourages technologists at ALL stages of their journeys! Please encourage all of your eligible students to apply. **There are award designations for ALL levels of technical ability, including students with little to no experience.**

The Aspirations in Computing (AiC) High School Award is now accepting high school students' applications! **Student applications are due October 29, 2024.**

Apply today at
<https://www.aspirations.org/award-programs/aic-high-school-award>



The John F. Kennedy Profiles in Courage Essay Contest is officially open! You can win up to \$10,000 for participating!

Contest topic: Describe and analyze an act of political courage by a US elected official who served during or after 1917, the year John F. Kennedy was born. The contest deadline is January 17, 2025. Visit <https://www.jfklibrary.org/essaycontest> for more information and to enter!

Unleash Your Creativity in NSF Game Maker Awards for K-12!

"Life in 2100"

Celebrate the 75th Anniversary of the U.S. National Science Foundation with an Exciting Game Design Challenge!



- Win up to \$8,500 in various prize categories.
- Get featured in NSF publications.
- Winners will get the opportunity to connect with other young innovators and industry leaders in gaming.
- Showcase your game at in-person prize event in Washington, D.C.



U.S. National
Science
Foundation

The U.S. National Science Foundation Game Maker Awards is an exciting opportunity for students in grades K-12 to showcase their creativity, technical skills and passion for game design.

The NSF Game Maker Awards for grades K-12 commemorate NSF's 75th anniversary by engaging students in a video game design competition. The competition aims to make STEM subjects exciting and accessible, encouraging students to imagine life in the year 2100 and the role science and technology will play in shaping the future.

Entrants will have the chance to win prizes, gain recognition and explore the fascinating world of science, technology, engineering and mathematics while developing a video game.

**Entries for the NSF Game Maker Awards are due by Jan. 31, 2025, at 5 p.m. EST.
Get your team of up to 5 members together and register today at
<https://nsfgamemakerawards.skild.com/login>**

Ideally located.
THAT'S THE POINT.



PointPark.edu

PITTSBURGH

POINT PARK
UNIVERSITY

Partnering with the Children's Museum of Pittsburgh, high school students will develop a high-level marketing communications plan at Point Park University's annual Point Pitch competition to win a \$500 prize for the best campaign. Teams of up to six high school students will develop branding and promotional ideas to entice middle and high school students to check out the Museum Lab at the Children's Museum.

The teams will be paired with a professional mentor from the Pittsburgh public relations and advertising industry, who will provide networking opportunities and guidance. Teams will produce everything from the big idea to creative executions and strategy.

Registration and team submissions by October 25.

<https://pointpark.me/3TfKr7X>

BOO BASH

A Halloween celebration for
ghouls and boys pre-K - 4th grade!

FUN VOLUNTEER OPPORTUNITY!

The annual Boo Bash will be held on Wednesday, October 23 from 6-7:30pm. This is a fun way to showcase your club, help the community, and earn up to 4 volunteer hours! It is our hope that each club (or you can sign up with a group of friends) will help by hosting a fun activity in which participating children can engage, win prizes or treats, and celebrate Halloween! All proceeds from this benefit help students in our own school through the Foxes Burrow and the Backpack for Hunger program. Contact Lisa_Gibson@fcasd.edu if you'd like to get involved!



Health Career Scholars Academy

Applications are now open for the University of Pittsburgh Health Career Scholars Academy

This residential academic summer program introduces and exposes participants to a wide variety of opportunities in the field of health care. If you have additional questions, please contact their office at pghsc@pitt.edu.

The program is held in Pittsburgh June 29 - July 26, 2025. Applications are now available on the How to Apply page. Tuition is \$3600. Application deadline is February 25, 2025.

All students are assigned to a concentration course to pursue one area of study in depth. The courses vary from year to year, but in the past have included health care for the chronically ill, family and child health, behavioral health, geriatrics, global health and public health.

For more information and to apply, please visit <https://www.hcsa.pitt.edu/>

SWE High School Day at CMU!

Event Date: Saturday, November 9, 2024

Event Location: Pittsburgh, Pennsylvania, USA

Age Range: 14 - 18 years old
Contact

Email: cmuswe.outreach@gmail.com

Event Description:

High school students can visit Carnegie Mellon University to learn about different engineering majors from CMU professors. There will be a student panel as well. Breakfast and lunch will be provided!

Keeper Conversations at the Pittsburgh Zoo

The Pittsburgh Zoo & Aquarium Conservation Education Department is offering their "pizza with the keepers" program again this year on November 9th from 12:30 – 2:30pm. Students in grades 10-12 can join animal care staff for lunch and find out what it's really like to work with animals at the Pittsburgh Zoo & Aquarium. You'll have the opportunity to talk with keepers from many areas of the Zoo, such as Kids Kingdom, reptiles, mammals, aquarium, and veterinary/animal care. Behind-the-scenes tours will be conducted by their Conservation Education staff following lunch. Space is limited, so register today at

<https://www.pittsburghzoo.org/event/pizza-with-the-keepers/>

There is a \$24 fee to cover the cost of pizza, soda, admission, and behind-the-scenes tour).



PITTSBURGH ZOO
& PPG AQUARIUM



NOVEMBER 9, 2024

9:00 AM - 3:00 AM

BREAKFAST AND LUNCH PROVIDED!

5000 FORBES AVENUE
PITTSBURGH, PA 15213

CARNEGIE MELLON UNIVERSITY
SWE OUTREACH PRESENTS:

HIGH SCHOOL DAY

WE ARE INVITING HIGH SCHOOL GIRLS TO EXPLORE DIFFERENT ENGINEERING AND ENGINEERING-RELATED DISCIPLINES THROUGH WORKSHOPS HOSTED BY CMU FACULTY AND STUDENTS!



REGISTER BY NOVEMBER 2, 2024
USING THE QR CODE OR THE LINK BELOW:
[TINYURL.COM/HIGHSCHOOLDAY2024](https://tinyurl.com/highschoolday2024)



WORKSHOPS IN:

- BIOMEDICAL ENGINEERING
- CHEMICAL ENGINEERING
- CIVIL AND ENVIRONMENTAL ENGINEERING
- ELECTRICAL AND COMPUTER ENGINEERING
- MATERIAL SCIENCE AND ENGINEERING
- MECHANICAL ENGINEERING
- + SPECIAL TOPICS!

For any inquiries, please contact
CMU SWE Outreach at:
cmuswe.outreach@gmail.com



Daughters of the American Revolution

Patriots of the American Revolution Essay Contest

The NSDAR sponsors a high school-level essay contest focused on figures of the American Revolution, in preparation for the 250th anniversary of the nation's founding. The contest is open to students in grades 9 through 12. All grades will be judged together, with one winner chosen at the chapter level. The deadline for student essay submissions is **Wednesday, November 27, 2024**. The topic for this year is: Select a figure from the era of the American Revolution (1773-1783). Discuss how he or she influenced the course of the American Revolution, who he or she was and his/her contribution to the founding of a new nation. Figures may be any person, whether a well-known figure or an everyday man, woman, or child who supported the American Revolution in ways large or small.

If you are interested in entering this contest, email Lisa_Gibson@fcasd.edu for entry requirements.



NOW ENROLLING STUDENTS IN GRADES 9-12 CAREER CONNECTIONS:

Career Connections offers students in grades 9-12 the opportunity to explore a career in programs that consist of multiple-day learning experiences. The programs provide a chance for students to make connections with organizations and people who can help them as they pursue their career choices. A registration fee of \$100 is due at the time of application. This fee is refunded if a student is not accepted into their choice of program. Some programs have an extra fee due at the first session (Visual Arts does not require a fee). Transportation to programs is the responsibility of the student.

The application for the 2024 Career Connections programs is now open!
<https://www.aiu3.net/students-and-families/student-programs-and-services/career-connections/>

The programs that are currently accepting applications for are:

- Digital Graphic Novels (Pittsburgh Center for Arts and Media) - please note that this program will be canceled if 6 students do not register before the 1st session. (1st session - October 1)
 - Visual Arts Career Orientation Program
 - Zoo Animal Care
 - Future Teachers Academy
 - Writing for Publication
- More programs will be added throughout the year.

A Career Connections application is complete when they receive:

- Online Application
- Waiver Form
- \$100 application fee - We are now accepting credit cards at <https://www.aiu3.net/careerconnections>. Checks and money orders may be mailed to the Allegheny Intermediate Unit. Please make sure you include identifying information if you are mailing payment – student name, program, school, phone number.

Please note that each program has multiple sessions and students will be required to attend all sessions. If you have any questions, please don't hesitate to contact Amy Davis at amy.mcshane@aiu3.net

THE COOLIDGE A SCHOLARSHIP FOR AMERICA

The Coolidge Scholarship is a full-ride, four-year, merit scholarship that recipients may use for undergraduate study at any accredited college or university in the United States. Any high school junior who plans to enroll in college in the fall of 2026 is eligible to apply. Winners may use the scholarship to pursue any academic major. Academic excellence is the primary criterion considered by the Coolidge Scholarship. Secondary criteria include an interest in public policy and an appreciation of the values President Coolidge championed. Successful candidates will also demonstrate humility and have a record of genuine service to their communities. A complete description of the scholarship's criteria is available at <https://coolidgescholars.org/selection-criteria/>

The competition for the Coolidge Scholarship is significant -- only a few new Coolidge Scholarships are awarded each year from a pool of candidates that spans the entire country. Even so, students have reported to us in past years they were glad to have applied even if they didn't win, because the experience helped prepare them for college applications later on. Furthermore, the Coolidge Foundation invites one hundred of the top Coolidge Scholarship applicants to participate in the Coolidge Senators Program, which includes an all-expenses-paid summit gathering and a \$1,000 scholarship. Scholarship applicants are automatically considered for the Senators Program. The scholarship application, along with additional information, can be accessed on their scholarship site: coolidgescholars.org. The submission deadline is Wednesday, December 11, 2024. Questions can be answered by email at coolidgescholars@coolidgefund.org or by phone at (202) 827-4291.

Regeneron Science Talent Search 2025 Application NOW OPEN Application & Recommendation Deadline: November 7, 2024

The [Regeneron Science Talent Search](#) (STS) is the nation's oldest and most prestigious student STEM competition. Alumni have made extraordinary contributions to science and have earned many of the world's most distinguished science and math honors, including thirteen Nobel Prizes. Every year, around 2,000 high school seniors submit an application in the hopes of being named a future leader in science – and sharing in the \$3.1 million dollars awarded to students AND their schools each year. Regeneron STS is free to apply, and as a test-optional, holistic competition with no GPA cut-offs or quotas, context is more important to them than any one factor.

<https://sciencetalentsearch.smapply.org/>

REGENERON SCIENCE TALENT SEARCH
APPLICATION NOW OPEN

Apply by November 7, 2024
to win up to \$250,000!