# *RFH STEM*
# *STUDENT OPPORTUNITIES!*

Greetings RFH Students!

This document will provide links and information to all sorts of STEM opportunities for our students throughout the 2026-2027 school year. Save it to your Google Drive and continue to check back in!! The next page has an index of the events, but also feel free to scroll down at your leisure.

Most of these will take place outside of the school day on an individual basis while others may be of interest to particular groups of students or a club here at school. If you are interested, please follow the directions for each event/opportunity. This is great for personal growth, honor society hours, and trying to find fields of STEM that interest you!

If you have any questions or would like to expand on some of these events, please feel free to reach out to me. Also, I would love feedback for anything that you have attended!

I'm excited to see how we all can take advantage of these opportunities!!

Have a great day,

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**Upcoming Events/Activities:**

1. Join RFH Clubs!
2. NASA Climate Change Research Initiative
3. Monmouth University HAWK HACKATHON
4. Congressional APP Challenge

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# *RFH STEM*
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## Join RFH Clubs:

RFH supports many opportunities for students to become involved in our very own Science, Technology, Engineering and Math-focused clubs. If you're interested, please sign up for their google classroom and reach out to the Advisor!

## *Our Clubs*

**Environmental Awareness Club**
Advisor: Mr. Haughwout (Room 606)
Google Classroom Join Code: 4gvwjia

**RFH STEM Club**
Advisor: Mrs. Kilar (Room 607)
Google Classroom Join Code: 7y73yhp

**Computer Programming Club**
Advisor: Ms. McBain(Room 106)
Google Classroom Join Code: kpsnwd7

## *Competitions this year*

**Science League**
Advisor: Mrs. Kilar (Room 607)
Google Classroom Join Code:

**Math League**
Advisor: Mrs. Deremiah (Room 203)
Google Classroom Join Code:

## *Honor Societies*

**Math National Honor Society (MNHS Requirements/Guidelines)**
Advisor: Mrs. DeMeter (Room 204)

**Science National Honor Society (SNHS Requirements/Guidelines)**
Advisors: Mr. Haughwout (Room 606)

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## NASA Climate Change Research Initiative

Program Overview
NASA Earth Science Division's Early Career Research (ECR) Program Climate Change Research Initiative (CCRI) is an interdisciplinary, collaborative, year-long STEM engagement, and experiential learning opportunity for educators and graduate students to work directly with NASA scientists and lead research teams in a NASA research project hosted at either NASA's Goddard Institute for Space Studies, Lamont Doherty Earth Observatory, CUNY City College of Technology in New York City, NY, or NASA's Goddard Space Flight Center in Greenbelt, MD. The summer component of each CCRI project also includes undergraduate and high school interns.

During the fall and spring terms of CCRI, the research team will consist of NASA Scientists who lead in-service high school STEM educators and graduate student research assistants to become immersed in a NASA science research area related to climate change. During the summer session, the primary research team will add an undergraduate intern and high school intern to the CCRI research team. The entire team will work collaboratively on a full-time basis to complete the research project, deliver presentations, create a scientific poster and a publishable research paper that will be presented at the CCRI HQ Day at NASA Headquarters in Washington, DC, and other science conferences and symposiums.

Undergraduates Students/ High School Students
Application Requirements
Student interns must complete the entire application within NASA's Internship STEM Gateway(search for CCRI).

Performance Requirements
Undergraduate and high school students work on real NASA projects with the guidance of a NASA CCRI mentor, a research scientist, and gain practical work experience.
All students are required to submit a final report upon completion of the program.

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Monmouth University HAWK HACKATHON

**Monmouth University's 2027 High School Programming Competition**.

This year's competition will take place on Friday, February 12, 2027 from 11:30-3:00 at Monmouth University's School of Science building in West Long Branch. Participants will be required to secure their own transportation to and from the competition. **Register today!**

The tentative schedule of the day follows:

11:30-12:30 – Welcome / Registration / Lunch
12:30-1:00 – Practice sessions
1:00-2:30 – Programming Competition
2:30-3:00 – Wrap up and Results

Below is a quick description of the competition:

*The competition consists of a set of programming problems. Teams should strive to correctly solve as many problems as possible, as quickly as possible. There will be exactly one and a half hours to work on the solutions. Each school can send up to two – three person teams to the competition.*

*Each team will be assigned to two computers in a particular lab, and issued appropriate login and password credentials. We have allocated two computers per team to encourage a "divide and conquer" process with different team members tackling multiple problems rather than working on one at a time.*

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Congressional APP Challenge




The Congressional App Challenge is the official computer science competition of the House of Representatives. Since its inception in 2013, winning the Congressional App Challenge has grown to become the most prestigious prize in computer science. Over 30,000 students have participated in the Congressional App Challenge across 335 Congressional Districts in 50 states and five U.S. territories. My office has participated in the Challenge since 2017, and I have always been amazed by your students' creations. This is an excellent opportunity for students that are from traditionally underrepresented communities to explore and develop their skills in STEM, coding, and computer science.

Apps can be about any theme or topic and students can use any programming language, and although apps can include Artificial Intelligence (AI) in design, apps cannot be created by AI. Students can participate as individuals or in teams of up to four. Interested students can register to participate by visiting the Congressional App Challenge website where the rules, prizes, and past winners can be found here: https://www.congressionalappchallenge.us/.

**All apps must be submitted before 12pm EST on October 26, 2026, to be considered for our in-person competition for the top entrants, which take place in early December 2026.**

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