

Welcome to the NGCP National Webinar

EngineerGirl Ambassadors: Empowering High-Schoolers and Inspiring Young Girls

Tuesday, January 12, 2021

Please respond to the poll and introduce yourself in the chat.

Use the chat to ask questions, respond to one another, and share resources.



NGCP Vision

The National Girls Collaborative Project **brings together organizations** committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).



NGCP Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.
2. **Strengthen the capacity** of programs by sharing exemplary practice research and models.
3. **Use the leverage of a network** to achieve gender equity in STEM.



NGCP Activities



Increased Collaboration Benefits Girl-Serving STEM Programs

Helped
us better
serve
girls



82%

Increased
girls'
interest
in STEM



78%

Helped my
program be
more
effective



77%

Increased
girls'
confidence
in STEM



77%

Source: NGCP 2015 Annual Survey

National Network of Collaborative Teams



EngineerGirl Speakers:



Simil Raghavan

Director of the Inclusive, Diverse, and Equitable Engineering for All (IDEEA) Initiative for the National Academy of Engineering (NAE).



Mary Mathias

Associate Program Officer with the National Academy of Engineering supporting EngineerGirl.



Crista Riccio

Educator and MakerSpace Program Specialist.



Faye Liu

2020-2021 EngineerGirl Ambassador and current high school student.

engineer



a program of the
 NATIONAL ACADEMY
OF ENGINEERING

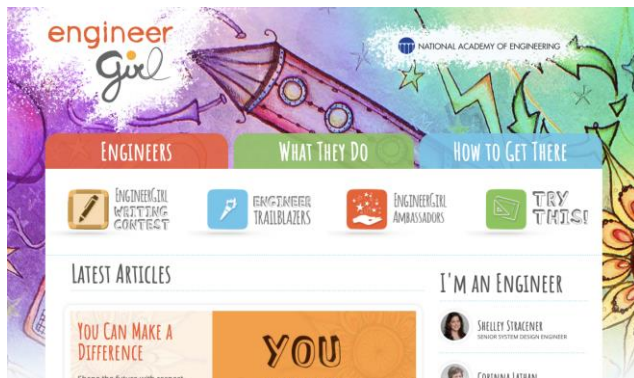
EngineerGirl Ambassadors: Empowering High-Schoolers and Inspiring Young Girls



NATIONAL ACADEMY OF ENGINEERING

What is EngineerGirl?

Online Resources: EngineerGirl.org



Annual Writing Contest:
EngineerGirl.org/Contest



**Ask an Engineer and
Gallery of Role Models:**
EngineerGirl.org/366/Answers
EngineerGirl.org/4447/Engineers-Directory



Ambassadors Program:
EngineerGirl.org/Ambassadors

What is the Ambassadors Program?

- Development of outreach, project management, and leadership skills
- Access to role models and networking
- Membership in a community of like-minded students from across the country



Components of the Ambassadors Program

Application & Local Sponsor

Training & Connection to Engineering

Hands-On Practice

Monthly Journals

Ambassador Community

CONTACT INFORMATION



YOUR PROJECT



PERSONAL IMPACT



COMMUNITY IMPACT



YOUR SPONSOR



YOUR REFERENCES



Ambassador Local Sponsor:

An adult in the Ambassador's community who believes in her and her proposed project and can help her implement her proposal (no monetary commitment)



Components of the Ambassadors Program

Application & Local
Sponsor

Training & Connection to Engineering

Hands-On Practice

Monthly Journals

Ambassador Community

2020-2021 Ambassadors Training Topics

- Introductions, Expectations & Community Building
- Project Management
- Choosing and Designing High-Quality STEM Activities
- Teaching 101
- Virtual Teaching and Learning Strategies
- Practice Implementing STEM Community-Building Activity with Peers
- Equity and Gender Responsiveness
- Cultural Responsiveness
- Panel with Engineers
- Meeting with Engineer Mentor



Components of the Ambassadors Program

Application & Local
Sponsor

Training & Connection to
Engineering

**Hands-On
Practice**

Monthly Journals

Ambassador Community



Components of the Ambassadors Program

Application & Local
Sponsor

Training & Connection to
Engineering

Hands-On Practice

Monthly Journals

Ambassador Community

Accomplishments

What have you done on your project since your last report?

Challenges

What challenges have you faced and how have you handled them?

Impact

What successes have you had and/or what are you most proud of?

Next Steps

What will you do next?

Recognition

Do you have any files, pictures, and/or media recognition you can share with us to help us champion what you are working on?



Components of the Ambassadors Program

Application & Local
Sponsor

Training & Connection to
Engineering

Hands-On Practice

Monthly Journals

**Ambassador
Community**



Finding & Supporting Ambassadors

EngineerGirl.org/Ambassadors

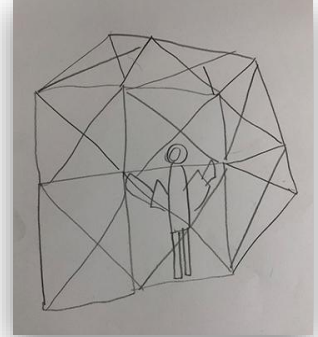


EngineerGirl.org/RisingStars

Help a Rising Star

- Recommend the program to her.
- Help her brainstorm ideas for a good project.
- Suggest potential sponsors.
- Offer to be her sponsor.
- Review or help her put together her application.
- Let her know you'll be her reference.





MakerSpace

After School Club



Subscribe to Our Newsletter!* INDICATES REQUIRED FIELDEMAIL *☐ I agree to receiving marketing and promotional materials.***SUBSCRIBE TO NEWSLETTER**

website



The Mira Costa "GALS Club", (girls advancing leadership in STEM, (science, technology, engineering, and math)), is proud to offer an after school "Maker Space" program! From 3 to 4PM we will (until further notice, VIRTUALLY), instruct South Bay elementary students in completing STEM-related projects with the tools found in their own homes. Subscribe to our newsletter and receive periodical updates about "Maker's Space" program content, dates, and meeting information (:

October Project

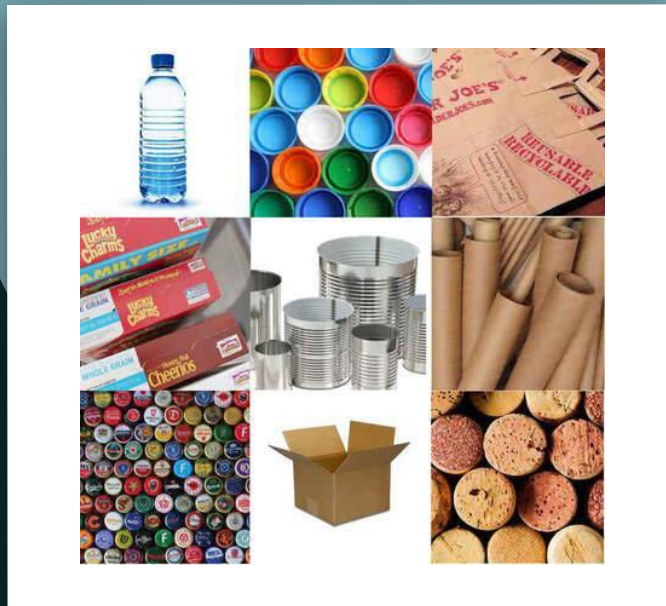
- Tuesday October 22, 3-4 PM

3-D printing is a simple form of making 3-dimensional objects from scratch. In applications like TinkerCad (which we'll be using), users can create digital, 3-D models. These models are then sent to a software program that creates a file to "slice" the model into hundreds or thousands of tiny pieces that 3-D printers can read. The 3-D printers are then able to print your design. This month, we'll be learning how to use TinkerCad to create your own 3-D designs!

[Explore the TinkerCad Website!](#)

newsletter





Q&A

Follow @EngineerGirlNAE

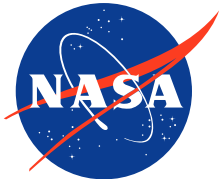


Thank you!

Follow @EngineerGirlNAE



Upcoming NGCP Webinars



**Reach Across the Stars: Meet
Your Female Space & Science
Heroes (virtually!)**

January 27, 2021