

COLUMBIA
**GIRLS
— IN —
STEM
INITIATIVE**

For girls and boys

Science, Technology, Engineering and Math

June 29–July 1

3-Day Virtual Symposium

About the Initiative

Launched by Columbia University's School of Professional Studies, the Columbia Girls in STEM Initiative addresses the persistent gender gap across STEM fields. 2020 marks the fifth year of the initiative, which will take place virtually and include students from across the United States - Miami, San Francisco, New York City and Washington, D.C. This program is open to qualified high school girls and boys.

Our Approach

Engage girls and boys from underrepresented populations through hands-on instruction in science, technology, engineering, and math (STEM) while developing their leadership and communications skills.

Support participating students with mentoring, special events, and resources as they prepare for college and beyond.

Conduct research to measure the efficacy of the program, understand how to scale efforts, and provide a road map for others to replicate our success.

General Criteria

- Student demonstrates necessary motivation to participate in a rigorous academic experience.
- Student has emotional maturity to fully participate in a 3-day STEM experience.
- Open to rising high school juniors and seniors.



"Improving the access to, and quality of, STEM education is the key to increasing equality and a competitive edge in one of the most important business sectors for the future."

Jason Wingard, Ph.D.

Dean

Please contact your local Boys & Girls Club for more information.

Engineering Hope and the Future

3-Day Virtual Symposium | June 29–July 1

Corporate
Partners



Goldman
Sachs



Participant
Sponsor



Program Schedule

Career Panel Discussion

Panel discussion with managers from Goldman Sachs, National Geographic and Microsoft on the skills needed to be successful in large organizations.

Admission and Financial Aid Discussion

Columbia University Admissions shares information about the admission and financial aid process.

Life of a College Student

Columbia Girls in STEM alums share their college life experience. Find out what it truly means to be a college student!

Managing Your Digital Presence

This workshop will outline how to leverage an online resume through the effective use of LinkedIn. The facilitator will provide tips for building a stand-out profile and highlight common mistakes to avoid. Session time will also be used to discuss the pros and cons of other social networking platforms. Students will design individualized SMART goals that target bridging their vision of their futures with their online presence.

STEM Sessions

National Geographic Society Workshop (National Geographic)

Hear from a National Geographic Explorer working to illuminate and protect the wonders of our world.

Design Thinking and Artificial Intelligence (Microsoft)

The world is full of problems to be solved and technology can provide helpful solutions, but how does one know what the customer or user REALLY needs? The process of Design Thinking keeps the end user as the focus in product development and seeking solutions. In this track, students will start with an overview of the design thinking process and a brief intro to the **Microsoft AI for Good**, presented by a Microsoft engineer. Tools and resources will be provided for students to develop a deeper understanding of design thinking, AI and presentation delivery.

Engineering Social Impact Workshop (Goldman Sachs)

Students will work in groups with Goldman Sachs engineers to design solutions to enhance online learning, prevent supply shortages, control crowds and create social engagement. They will tackle these problems using the latest technologies, all while learning online from their homes. At the end of the session, students will present final ideas incorporating what they learned about UX design, social impact research and technology innovation.

Five Keys to Designing your STEM Future (Edge of Yesterday)

In this session, we will investigate the life hacks required for stability and life success in the emerging post-pandemic world. While the roadmap to success has always looked like a sure bet: study hard, work harder, make the "right" connections, and follow a proven path forward, and you will be "safe." You will explore 5 life hacks to recognize and free your inner superhero, advance brain gains and create greater impact in your family, in your community and in the world.



"It's really great to learn that there are so many powerful women and it's really inspiring—it makes me feel like I can do that, too."

Gizelle T., Girls in STEM Alumna