Welcome to the National Girls Collaborative Project
National Webinar
Utilizing Mentorship to Empower Girls in STEM
January 31, 2017
Agenda

• NGCP Vision and Goals
• Techbridge: Exemplary Practices in Mentorship
• SciGirls: Role Model Strategies Guide and Training
• FabFems: Mentoring Experience
• Questions and Discussion
• Closing
NGCP Vision

The National Girls Collaborative Project (NGCP) brings together organizations that are 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 program models.
3. **Use the leverage of a network** to achieve gender equity in STEM.
National Network of Collaborative Teams
Speakers

Nikole Collins-Puri
CEO, Techbridge Girls

Rita Karl
Managing Director of STEM Media & Education, Twin Cities Public Television
FabFems

Sarah McCrea
Education Outreach Coordinator, NASA

Bambi Brewer
Curriculum Designer
BirdBrain Technologies
Inspire a girl to change the world.

www.techbridgegirls.org
Techbridge Girls

Inspire girls of color from low-income families to discover a passion for STEM. Through our gender and culturally responsive after school and professional development program, we empower the next generation of girl innovators and leaders to change the world.
Techbridge Girls builds an ecosystem of support

- After-School Programming for Girls of Color
- Role Model Training and Career Exploration
- Professional Development for STEM OST Providers
- National Partnerships:
  - Girl Scouts USA
  - SWE
  - YMCA-USA
- Family Events and Resources
- Field Trips with Corporate Partners
Less than 50% of high school girls know someone in a STEM career.

82% of Techbridge girls say that interactions with role models made them more interested in working in technology, science or engineering.

Exposing girls to female role models helps counteract negative stereotypes about women and science/math.

Sources and more stats found in Engage, Connect, Inspire guide.
Key Elements Effective Role Model Engagement

Engage & Connect
• Make it Personal
• Use Age Appropriate Language
• Share journey (victories and challenges)
• How does your career help others?

Activity Interactions
• Hands-off facilitation
• Give useful and specific feedback
• Use open-ended ?s
• Growth mindset feedback
Learn More

Visit our website & Use our Resources:

- techbridgegirls.org
- Role Model Training & Resources

Join Our Upcoming Webinars! *(NO RSVP)*

- Wednesday, February 1st at 1 p.m. eastern
- Wednesday, February 1 p.m. at 9 eastern
- Tuesday, Feb. 21 at 2 p.m. eastern

Join at [https://zoom.us/j/6154019760](https://zoom.us/j/6154019760)

*More info contact Megan Davis, Program Manager: [mdavis@techbridgegirls.org](mailto:mdavis@techbridgegirls.org)*

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@techbridgegirls.org
Questions?
Role Model Strategies: Encouraging Girls to Consider STEM Careers

Rita Karl, Managing Director
STEM Media and Education Unit

“To change how millions of girls (ages 8-13) think about STEM”
Why are role models important in STEM programs?
Seeing women who have succeeded in STEM helps inspire and motivate girls. Female role models are good for boys too!
The *SciGirls Seven: Strategies for Engaging Girls in STEM*, research-based, gender equitable strategies for engaging girls in STEM addresses the importance of connecting girls with role models and mentors.

**Why use role models?**

Girls benefit from relationships with role models and mentors. Seeing women who have succeeded in STEM helps inspire and motivate girls, especially when they can relate to these role models as people with lives outside of work. By hosting worksite field trips or visiting classrooms, role models tangibly demonstrate how girls can explore—and succeed in—STEM. (Holmes, Redmond, Thomas & High, 2012; Liston, Peterson & Ragan, 2008; Lyon & Jafri, 2010; Mostache et al., 2013; Weber, 2011)
Why are role models important in STEM programs?

Linking programs with local businesses and leaders (many of whom are women) can provide girls with opportunities to meet people, see workplaces, secure internships and see women as STEM professionals. Likewise, when companies partner with STEM programs to provide girls with role model and mentoring opportunities, they create a cohort of skilled candidates for their future workforce.

- STEM industry role models can motivate and support girls by sharing their experiences and highlighting challenges and strategies for success.
- Experienced role models say helping girls connect to STEM re-energizes them, gives them a chance to collaborate with others in their work places, and helps them develop their leadership skills.
SciGirls publications and resources help educators and role model with strategies for engaging girls in STEM.

-SciGirls Seven: How to Engage Girls in STEM
-SciGirls Role Model Strategies: Encouraging Girls to Consider STEM Careers (created in partnership with Techbridge!)

-SciGirls Profiles: Real Women, Real Jobs is a series of 12 short-form role model videos of women in highly non traditional professions discussing their work, lives, challenges and strategies for success!

Visit [http://www.tpt.org/scigirls-profiles](http://www.tpt.org/scigirls-profiles)!
Role Model Strategies

- Make a **personal connection** to dispel stereotypes.
- Use **positive messaging** to show how STEM makes the world a better place.
- Share your **passion**.
- Make it **hands-on** and keep it interactive.
- Foster a **growth mindset** and promote perseverance.
- **Show the way**: offer resources and academic guidance for right here, right now.
- Follow-up and **invite feedback**.
Want to know more?

For Educators and Role Models: scigirlsconnect.org
For Kids: pbskids.org/scigirls
For Parents: pbs.org/parents/scigirls
Role Model Videos: tpt.org/scigirls-profiles and pbslearningmedia.org/collection/scigirls (in English and Spanish)

scigirlstv @SciGirls
Questions?
The FabFems Project
Role Model Directory: FabFems is an international, online, searchable directory of women STEM professionals interested in outreach to girls.

Audience:
- Role Models
- Girl-Serving Programs
- Parents and Girls

www.fabhems.org
Sarah McCrea

- Atmospheric Scientist
- Education Outreach Coordinator
- NASA S’COOL
Bambi Brewer

- Curriculum Designer
- Robotics
- BirdBrain Technologies
Questions?
Get Involved with NGCP

- Follow us on social media, @NGCPProject
- Attend local events and national webinars
- Join your local Collaborative leadership
- Collaborate to serve more girls in STEM
- Join Techbridge, SciGirls, and FabFems
Upcoming NGCP Webinars

http://ngcproject.org/events
Thank you for joining us today!