



## *COOL CAREERS IN CYBERSECURITY PROGRAMS*

### BECOME AN INSTRUCTOR

Instruct a Cool Careers in Cybersecurity After-School Program in Your Community

Cool Careers in Cybersecurity Informal Programs allow students to explore gaming, modeling and simulation development, and robotics, within the context of **exciting careers in fields such as digital forensics, cybersecurity and cryptography** which connect science, technology, engineering and math (STEM) to real world tools and problems. Students engage in hands-on STEM activities while learning about digital literacy (technology fluency and applications, team building, collaboration tools, problem based critical thinking). Attendees:

- Create games and simulations using software packages such as MicroWorlds, Excel, Scratch, Alice, Rapture, Python, StarLogo, GoogleSketchUp
- Build and program robots
- Experiment with Cryptography
- Explore careers that use technology such as digital forensics, cryptography, and cybersecurity
- Develop an awareness of Cyberethics, Cybersafety and Cybersecurity

Cool Careers in Cybersecurity Informal Program is a turnkey cybersecurity awareness program, meaning anyone affiliated with a community organization including girls, school administrators, community leaders, and teachers can start a program!

#### HOW IT WORKS

Each informal science program must have a qualified and dedicated instructor to implement the Cool Careers in Cybersecurity content. The instructor should have a working knowledge with computers. Instructors are trained by C34G staff. Typically, C34G instructors are educators with a background in a STEM related field, technology/media specialists, tech ed and computer science teachers, software developers, programmers, computer science majors, retired engineers or computer scientists.

#### FUNDING

Funding for teaching is dependent on the host site. Some organizations (Girl Scouts, 4H, STEM efforts at school) consider this part of their normal work duties. Others have paid instructors through grants, funding from school budget or have charged attendees a small fee to cover the cost of the instructor.



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#### INSTRUCTOR RESPONSIBILITIES

- Instructors must attend a C34G training in advance of the event (online options available). ~ 4 hours.
- Instructors are responsible for ~8 hours of program instruction per month and ~2 hours of prep time per month. This does not include travel time to and from the program hosting site.
- Instructors host regular program sessions typically 1-2 hours once or twice per week for 10 weeks. The schedule will need to be organized with the site location POC.
- Instructors travel to club site to host sessions
- Instructors work with Cool Careers in Cybersecurity staff to organize content, hands-on activities, and speakers
- Instructors fulfill communication and reporting requirements in accordance to Cool Careers Program requirements

#### INSTRUCTOR QUALIFICATIONS

To qualify to teach a Cool Careers in Cybersecurity Program, instructors must have a demonstrated interest and experience in STEM related fields. We provide proprietary curriculum, and can give either web based or face-to-face training with respect to its content and instructional best practices. The ideal instructor has experience teaching a STEM course, and an interest in computers, cyber security, robotics, and content based learning.