Newton 'Girls Who Code' Club seeks Volunteer Instructors

The Newton 'Girls Who Code' club is recruiting software engineers and computer scientists to volunteer as instructors for the 2015-2016 school year. The club serves girls in grades 6-12 and aims to inspire, educate, and equip them with computing skills for the 21st century.

We meet for 2 hours each week, and follow a curriculum published by the national Girls Who Code organization. Working in Scratch, JavaScript, AppInventor, and HTML/CSS, we build a range of projects from graphics to video games to artificial intelligence to cryptography. We also host guest speakers, go on field trips, and develop soft skills like collaborating and presenting your work. Club volunteers are passionate about closing the gender gap in technology and getting girls into this rewarding field.

The Newton Free Library currently hosts two club sections with over 30 girls. We are hoping to expand to a third section for 2015-2016 and host up to 60 girls, but we need more volunteer instructors to do so. Instructors deliver short lectures, run discussions, and help girls with their coding projects during Make Time. The club provides the curriculum and all the instructional material (slides, code examples, assignments), though instructors are also welcome to design and use supplements. The club schedule is flexible: If you can commit to volunteering on a regular basis, we can create a section that meets at a 2-hour afternoon, evening, or weekend time that fits your schedule. The club year starts in October 2015 and runs through May 2016.

To qualify as an instructor you must:

- Be proficient in at least one backend programming language.
- Have intermediate knowledge of data structures and algorithms.
- Be able to pass a background screening.
- Commit to volunteer 2–3 hours per week.

We welcome both men and women instructors. We prefer volunteers who have some experience working with youth (e.g., as coaches, teaching assistants, camp counselors, or tutors) but this is not required. Each section has 1 or 2 instructors, so consider volunteering as a co-instructor if you think you are not up to running a section by yourself.

Visit our website www.newtongwc.org to get a sense of who we are and what we do.

To learn more about volunteering or to arrange a time to see the club in action, see the accompanying pages and then contact newtongwc@gmail.com.

JOIN THE *girls who code* MOVEMENT

VOLUNTEER TO TEACH A GIRLS WHO CODE CLUB IN YOUR AREA

Our volunteers are at the core of the Girls Who Code movement and make CS education possible for thousands of girls nationwide. Through practical application of our curriculum and your technical experience, we can empower and equip one million girls by 2020 with the skills they need to pursue careers in STEM.

GIRLS WHO CODE CLUBS

Girls Who Code Clubs is a uniquely scalable program bringing high-quality computer science education to 6th–12th grade girls nationwide. Clubs meet after school and on weekends throughout the year in classrooms, libraries, community centers, and local universities. Employing a flexible and proven curriculum, we equip girls with concrete technical skills that will provide the foundation for futures in technology.

WHY VOLUNTEER?

As a volunteer instructor you will have the chance to:

+ Expose girls in underserved areas to a comprehensive and unique CS education

+ Empower young women in CS and help transform tech into a better, more inclusive industry

+ Develop powerful leadership skills while positively impacting your community

+ Interact with large tech companies and industry leaders through field trips and guest speakers

+ Join a community of professionals and students who are passionate about gender parity

QUALIFICATIONS

+ Proficient in at least one backend programming language

+ Intermediate knowledge of data structures and algorithms

+ Some experience working with youth preferred but not required

+ Ability to pass a background screening

+ Commitment to volunteer 2–3 hours per week

OUR CURRICULUM

The Girls Who Code Clubs program centers around a fun, collaborative, 40-hour Clubs curriculum designed to teach a wide range of skill sets through multilevel content. Project-based modules include graphic art, video game design, mobile app development, and cryptography, and culminate in a final project of the girl's choosing that will benefit her community.

SUPPORT

+ Online training: classroom management and curriculum implementation

+ Volunteer Forum: connect to an interactive community of volunteers

+ GWC Curriculum Director: available for weekly office hours

+ GWC Program Manager: assigned to each Club for ongoing check-ins

+ Club Faculty Advisors: there to assist you with general classroom management

ZHONGYING JIANG
Site Merchandiser at Amazon

Each week, I am inspired and impressed by the girls in our classroom. They are no longer just consumers of content; they are thoughtful creators of it. They break down problems in unique components, and build solutions with detailed diligence. I can't wait to see how they will contribute to this world.

CHRIS HENNES
Computer Training Center Assistant at Pioneer Library System

The speed at which the girls are learning to code is nothing short of amazing, and their excitement at finally being able to create their own games and interactive stories is infectious. I'm looking forward to seeing what they come up with next!

> Apply at www.girlswhocode.com/clubs

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