

The background of the entire page is a vibrant, stylized illustration. It depicts several women in various poses, some sitting at desks with laptops, others standing or leaning over. The color palette is dominated by teal, red, and black. In the upper right, a woman with short white hair and red earrings is at a desk with a laptop and a coffee cup. Below her, a woman with dark curly hair is seen from behind, also at a desk. In the center, a woman with short pink hair is looking at a computer monitor. In the lower right, a woman with long red hair is sitting on the floor, working on a laptop. In the lower left, a woman with long red hair and glasses is looking at a tablet. The overall scene suggests a collaborative and productive work environment.

THE BEGINNER'S GUIDE TO FREE & LOW-COST TECH COURSES IN NYC

Classes, workshops and meetups across the boroughs teach you the skills you need to land a well-paying tech job

Women.nyc is a comprehensive initiative to make New York City the best place in the world for women to succeed.

By working with partners who share our mission to financially empower women and leveraging all the tools the city has to offer, we've rolled out groundbreaking programs that have a real impact, including salary negotiation workshops, career training, funding for small businesses, grants for female creators, legal advice from the city's most respected law firms, and more.

So why a guide to free and low-cost tech training from women.nyc? Because there's a shortage of women in high-paying fields like web development, data science and cybersecurity. Because our city is rich in free and low-cost ways to learn these in-demand skills. And because a more diverse tech workforce will lead to better tech for everyone – and maybe even a booming career for you.

Think you can make it in tech? We do. Here are dozens of places to start.

Good luck!



FAYE PENN
Executive Director
women.nyc

 @FAYEPENN



JASMINE BAKER
Deputy Director
women.nyc

 @JASMINENBAKER

To download this guide, go to women.nyc/tech-guide.

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Looking for a well-paying career? Look no further than New York's tech scene.

Among the top tech ecosystems in the world, the sector is **one of the fastest growing** in the city's economy, with startups alone valued at an estimated **\$71 billion**. All this growth means just one thing: high demand for tech talent.

Top companies have committed to adding thousands of jobs in the city while the number of startups (9,000 at last count) continues to grow. In fact, New York's tech sector has nearly doubled since 2009 and employs more than **140,000 people**. With **an average salary of \$152,900**, the hub has become a key economic driver for the city.

But demand for workers with the right skills is outstripping supply for some roles. Recent research from LinkedIn shows shortages in the thousands for certain fast-growing fields, **such as data science**.

That's where you come in. You can position yourself for a well-paying tech career quickly and affordably by enrolling in one (or more) of New York City's free and low-cost courses. Offered by a host of government agencies, libraries, private companies and nonprofits, these courses cover a range of key sectors within tech and are available throughout the boroughs.

While New York's tech scene is thriving, top employers still struggle to fill positions in key sectors, such as web development, cybersecurity and data science and analysis. By taking the first steps toward breaking into these fast-growing fields, you could position yourself to score an entry-level job paying \$75,000 to \$98,000.

WEB DEVELOPMENT

National growth forecast: 13% between 2018 and 2028

What you'll do: Shape a web site's design and appearance or write code to build digital tools and apps that can accomplish certain tasks.

Skills needed: Languages such as: HTML, CSS, JavaScript, Ruby and/or Python.

Starting salary: \$76,000 (per Glassdoor)

CYBERSECURITY

National growth forecast: 32% between 2018 and 2028

What you'll do: Help companies cope with and prevent data hacks and breaches. Roles include: security operations center analyst, cybersecurity support technician, network security specialist or penetration tester.

Skills needed: Knowledge of security standards and how to test for vulnerabilities in a system.

Starting salary: \$85,000

DATA ANALYSIS & DATA SCIENCE

National growth forecast: 30% between 2018 to 2028

What you'll do: Help businesses grow or work more efficiently. A data scientist uses math, machine learning and programming to analyze patterns and predict the future, while a data analyst studies known statistics and data points to create new insights.

Skills needed: Programming languages, such as Python and R. Other skills: understanding of mathematics, statistics, Excel, database structures, modeling and SQL, a database management language. Data visualization and presentation.

Starting salary: Data analyst: \$60,714; data scientist: \$98,214 (per Glassdoor)

In these pages, you'll find everything from introductory sessions that lay out a field's career possibilities to in-depth bootcamps that connect you to job opportunities once you've built your toolkit.

We took an exhaustive approach, wanting to provide a range of in-person and remote options that worked for beginners in each borough. While we've provided as much information on each course as possible, we did not vet each one, and factors such as cost and location are subject to change. Make sure to contact each provider to understand if the class will best meet your needs.

Whether you're looking to explore a new field or take your current job in a new direction, understand that these courses are intended for beginners. Certain computer programs can be mastered in a matter of weeks, but you'll still need additional training to land that first job in your field. Regardless, these classes can get you started on your new career quickly and affordably.

Find the Right Tech Training for You

It can be hard to know which training type best suits you. Luckily, a few simple considerations can help you make the best choice.

CONSIDER YOUR NEEDS

Tech careers aren't for everyone. If you don't have coding experience, get started slowly with some free online classes. You'll be introduced to the mechanics so you can better decide if you want to learn more. Once you are sure you want to pursue this career path, enroll in courses to sharpen your skills and then an in-depth bootcamp that can connect you to a career in your new field.

CONSIDER YOUR SCHEDULE

If you choose an online program, [the Flatiron School suggests](#) setting aside weekends or evenings for consistent progress. If you've picked an in-person program, check to make sure you can attend every session to get the most out of the experience. Safeguard the time you need for classwork and practice by blocking it out on your calendar.

CONSIDER YOUR GOALS

What would you like to get out of your training? Would you just like to know more about a certain technology or sector? Or are you hoping to make a shift in your current job or even change careers? Knowing the answers to these questions is key—and can guide you as you research course providers. For example, if you're hoping your training will lead to job opportunities, [careers site Dice suggests](#) you find out what percent of students graduate on time and how many are working in the field for which they trained. You can ask your school for these metrics or, as Dice points out, review data compiled by the [Council for Integrity for Results Reporting](#).

As you research courses, get creative. Multiple sites (such as [Switchup](#) and [Course Report](#)) review classes and bootcamps. The New York Tech Talent Pipeline has a downloadable checklist, [Choosing a Tech Bootcamp: Things to Look For](#), to help you evaluate your options. And don't overlook connecting with people in person. Reach out to alumni from programs you're considering or drop in on a local tech meetup in your field. These simple conversations can help build your network while giving you the advice you need to plot your next career move.



THE GUIDE

Web Development

In-person Classes

CSS, HTML

CSS: THE BASICS

Learn the fundamentals of adding CSS to a webpage. This course is one of 80 offered through TechConnect from the New York Public Library.

Location: Varies

Hours: Varies

Who's eligible: 18 and older with some knowledge of HTML

Cost: Free

Duration: One 2-hour session

Deadline: First come, first served

Info: www.nypl.org/computers

CREATE A WEBSITE WITH HTML AND CSS

Learn coding fundamentals and make your own webpage. This course is one of 80 offered by the New York Public Library to strengthen technology skills.

Location: Varies

Hours: Varies

Who's eligible: 18 and older

Cost: Free

Duration: One 2-hour session

Deadline: First come, first served

Info: www.nypl.org/computers

CSS3 & HTML5

Through a series of project-driven labs, you'll learn CSS3 and HTML5 to control your website's appearance. This course is offered through Baruch College's division of Continuing and Professional Studies.

Location: Baruch College. Exact location TBD

Hours: Wednesdays, 6:15 p.m. to 9:15 p.m.

Who's eligible: Anyone. Some HTML experience recommended

Cost: \$425

Duration: 5 weeks

Deadline: See website for future dates. Class capped at 25 students

Info: <https://registration.baruchcaps.com/baruch/course/course.aspx?C=3883>

Website: <https://www.baruchcaps.com>

Phone: 646-491-6687

MAKING WEB PAGES

Learn to build engaging websites using HTML and CSS basics in this course offered by the Queens Public Library.

Location: Varies

Hours: Varies

Who's eligible: Adults

Cost: Free

Duration: 4 weeks

Deadline: First come, first served

Info: <https://www.queenslibrary.org/programs-activities/technology-training/tech-workshops>

Phone: 718-990-0769

DESIGNING YOUR OWN WEB PAGE

Get introduced to HTML and CSS basics in this course offered by the Queens Public Library.

Location: Varies

Hours: Varies

Who's eligible: Adults

Cost: Free

Duration: One session

Deadline: First come, first served

Info: <https://www.queenslibrary.org/programs-activities/technology-training/tech-workshops>

Phone: 718-990-0769

PROJECT CODE

You'll learn front-end development fundamentals, create a website with the other students in your class and earn a certificate of completion in this course, one of 80 offered through the New York Public Library's TechConnect program.

Location: Varies

Hours: Varies

Who's eligible: 18 and older. Computer skills assessment required

Cost: Free

Duration: 12 weeks

Deadline: Tickets for Project Code's orientation and testing sessions are made available in January for the winter semester and in late July for the fall semester.

Info: www.nypl.org/computers

Java

JAVA FOR NEW PROGRAMMERS

Learn object-oriented programming basics. Also covered: defining objects, typing, flow control, and exception handling, among other topics. This course is offered through Baruch College's division of Continuing and Professional Studies.

Location: Baruch College. Exact location TBD

Hours: Saturdays, 10 a.m. to 1 p.m.

Who's eligible: Anyone

Cost: \$655

Duration: 8 sessions

Deadline: Check site for future dates

Info: <https://registration.baruchcaps.com/baruch/course/course.aspx?C=2669>

Website: www.baruchcaps.com

Phone: 646-491-6687

JavaScript

JAVASCRIPT: THE BASICS

Learn how to add JavaScript to a webpage. This course is one of 80 offered through TechConnect, a New York Public Library program designed to build and strengthen technology skills.

Location: Varies

Hours: Varies

Who's eligible: 18 and older. Must have a basic understanding of HTML

Cost: Free

Duration: One session

Deadline: First come, first served

Info: www.nypl.org/computers

Python

INTRODUCTION - PYTHON

Learn Python programming fundamentals, including reading and writing functions as well as data types, such as numbers, strings, lists, and dictionaries. This course is offered through Baruch College Continuing and Professional Studies.

Location: Baruch College. Exact location TBD

Hours: Tuesdays, 6:15 p.m. to 9:15 p.m.

Who's eligible: Anyone

Cost: \$545

Duration: 5 sessions

Deadline: Check site for future dates

Info: <https://registration.baruchcaps.com/baruch/course/course.aspx?C=3880>

Website: www.baruchcaps.com

Phone: 646-491-6687

Online Courses

CODING BOOTCAMP PREP

Learn to code with this full-stack, self-paced course that teaches two languages (Ruby and JavaScript) and job hunting skills. The course, provided by the Flatiron School, also offers on-demand support and tools for connecting in real-time to students and instructors.

Hours: Self-directed

Who's eligible: Anyone. The class can act as an introduction for beginners or a prep-course for those eyeing a competitive coding bootcamp

Cost: Free

Duration: 75 hours

Info: www.flatironschool.com/free-courses/coding-bootcamp-prep

Website: www.flatironschool.com

Email: info@flatironschool.com

Phone: 888-958-0569

DASH BY GENERAL ASSEMBLY

A series of short, interactive projects walks beginners through the basics of HTML, CSS and JavaScript to create a functioning site.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: N/A

Info: <https://dash.generalassemb.ly/projects>

FRONT END DEVELOPER SUITE

Lehman College bundles together three online courses to teach students how to use CSS3, HTML5 and JavaScript to build responsive websites optimized for smartphones, tablets and desktops.

Hours: Self-directed

Who's eligible: Anyone. Some experience in HTML recommended

Cost: \$299

Duration: 12 weeks

Info: www.ed2go.com/lehmance/online-courses/front-end-developer-suite

For more upcoming dates: www.ed2go.com/lehmance/

INTRODUCTION TO HTML

Master the basics of HTML5 in this course offered by Codecademy, a New York-based company specializing in interactive online tech courses.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: 7+ hours

Info: www.codecademy.com/learn/learn-html

Website: www.codecademy.com

INTRODUCTION TO JAVASCRIPT

This course lays the foundation for using JavaScript in any environment. It's offered by Codecademy, a New York-based company specializing in interactive online tech courses.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: 35+ hours

Info: www.codecademy.com/learn/introduction-to-javascript

Website: www.codecademy.com

INTRO TO JAVASCRIPT

Learn the basics and gain an understanding of the differences between client-side and server-side JavaScript. The course is one of several pre-recorded webinars offered by Noble Desktop, a New York-based tech training company.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: 2 hours

Info: www.nobledesktop.com/seminars/intro-to-javascript

Website: www.nobledesktop.com

Email: hello@nobledesktop.com

Phone: 212-226-4149

INTRO TO JAVASCRIPT

Master JavaScript basics and get introduced to functions, structures (such as arrays and objects) and jQuery.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: 50+ hours

Info: www.flatironschool.com/free-courses/learn-javascript

Website: www.flatironschool.com

Email: info@flatironschool.com

Phone: 888-958-0569

JAVA PROGRAMMING SERIES

Learn Java programming at your own pace with this package of instructor-led online courses from Lehman College. The series bundles two courses (Introduction to Java Programming and Intermediate Java Programming), teaching participants to write their own programs, how

to save data using sequential data files and how to organize that information. Two lessons are released every two weeks, allowing students to work the courses into their schedule.

Hours: Self-directed

Who's eligible: Anyone

Cost: \$199

Duration: 12 weeks; six weeks for each of the 2 courses

Info: www.ed2go.com/lehmance/online-courses/learn-java-programming

For more upcoming dates: www.ed2go.com/lehmance/

INTRO TO RUBY ONLINE

Explore the basics of Ruby with this immersive online course that helps you build your own online game. The course, provided by New York-based Flatiron School, offers on-demand support, an open-source curriculum and real-time collaboration.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: 30+ hours

Info: www.flatironschool.com/free-courses/learn-ruby

Website: www.flatironschool.com

Email: info@flatironschool.com

Phone: 888-958-0569

LEARN CSS

Learn to set up file structures, edit text and colors, and create attractive layouts in this class, offered by Codecademy, a New York-based company specializing in interactive online tech courses.

Hours: Self-directed

Who's eligible: Anyone. [Introduction to HTML](#) is recommended as a prerequisite

Cost: Free

Duration: 15+ hours

Info: www.codecademy.com/learn/learn-css

Website: www.codecademy.com

SKILLCRUSH CODING CAMP

Get introduced to HTML, CSS, Javascript, and Wordpress and learn about the career opportunities in tech. Participants are given access to Skillcrush's Coding Camp Slack community for additional support.

Hours: Self-directed

Who's eligible: Anyone

Cost: Free

Duration: N/A

Info: <https://learn.skillcrush.com/skillcrush-free-bootcamp/>

Career Track Bootcamps, Accelerators and Intensives

NYC WEB DEVELOPMENT FELLOWSHIP

The NYC Tech Talent Pipeline's Web Development Fellowship, a full-time, 17-week immersive training program, is designed to prepare New Yorkers with no previous professional web development experience for careers in Web Development at salaries of \$65,000 or more. Offered in partnership with Fullstack Academy, this project-based program, worth \$17,000, is offered free of cost to eligible applicants.

Location: In-person, 5 Hanover Square, 11th floor, Manhattan

Hours: Full-time. Foundations phase (4 weeks), on campus; Junior phase (six weeks on campus), 10 a.m. to 6 p.m.; Review Week, 1 week remote self-study; Senior phase (six weeks on campus), 9:30 a.m. to 6 p.m.

Who's eligible: 18 years and older. Participants must earn less than \$50,000 a year, be a New York City resident and be authorized to work in the U.S. Unemployed New Yorkers are eligible. Participants must not have prior professional (paid) experience in web development or be currently working as a developer

Cost: Free, including materials; laptops and Metrocards are provided for students in need

Duration: 17 weeks

Deadline: 2020 dates and deadlines not yet set

Info: www.fullstackacademy.com/nyc-fellowship

Email: nycfellowship@fullstackacademy.com

ACCESS LABS INITIATIVE

This coding bootcamp, a partnership between WeWork and the Flatiron School, offers an immersive software engineering curriculum in which you'll learn in-demand languages such as HTML5 and CSS, JavaScript, SQL and Ruby. According to the Flatiron School, graduates of this program now work at top tech companies, including Google, IBM and Microsoft.

Location: Flatiron School, 81 Prospect St., Brooklyn

Hours: Weekdays, 9 a.m. to 6 p.m.

Who's eligible: 18 or older. Must earn \$35,000 a year or less

Cost: \$0 upfront. Once employed, graduates pay a tuition of \$17,000 in monthly increments of 10 percent of their income

Duration: 15 weeks

Deadline: Rolling. New cohorts start every 3 weeks. Each cohort comprises around 20 students.

Info: www.accesslabs.org

Email: info@flatironschool.com

Phone: 888-958-0569

PURSUIT FELLOWSHIPS

Accepted fellows can choose from two tracks, iOS mobile development or full-stack web skills. Each track offers two phases: Pursuit Core, in which students learn fundamentals in computer science, coding, and testing by working collaboratively and building real-world projects; and the longer Pursuit Advance, which offers graduates career support. According to Pursuit, a social-impact organization based in Long Island City, current graduates work at Pinterest, Spotify, LinkedIn, Uber and a host of other companies.

Location: 47-10 Austell Place, Long Island City, Queens

Hours: Pursuit Core daytime schedule: 10 months—daily from 10 a.m. to 6 p.m.; Pursuit Core nights and weekend schedule: 12 months— weekdays from 7 p.m. to 10 p.m. and Saturdays and Sundays from 10 a.m. to 6 p.m.

Who's eligible: 18 or older with demonstrated need. Women, underrepresented minorities, and people without college degrees are encouraged to apply

Cost: \$0 upfront. Once employed at a tech job earning more than \$60,000, participants pay 12 percent of their income for 3 years

Duration: Four years. Pursuit Core: 10-12 months; Pursuit Advance: 36 months

Deadline: Check website

Info: www.pursuit.org

REVATURE

CUNY has partnered with Revature, a technology talent development company, to create this hybrid program. It combines 12 weeks of immersive training with a 2-year paid placement at a partner business or government agency. Tracks shift depending on the needs of the Fortune 500 companies and agencies with whom Revature works. Participants build a professional portfolio and earn related certifications.

Location: Queens College, CUNY, 65-30 Kissena Blvd., Queens; CUNY School of Professional Studies, 119 W. 31st St., Manhattan

Hours: Varies by track

Who's eligible: U.S. residents with a bachelor's degree or better. Beginner and intermediate skill levels welcome

Cost: Free

Duration: 12 weeks of training; 24 months of paid job placement

Deadline: Deadlines not yet set. The application includes an in-person interview

Info: <https://revature.com/cuny/>

Email: cuny@revature.com

Phone: 703-570-8181

TECHHIRE OPEN CODE - WEB DEVELOPMENT

Learn programming fundamentals, product development, and web development. This program includes job search assistance and career counseling. It is one of two job-training tracks offered by LaGuardia Community College's TechHIRE Open Code.

Location: In-person sessions vary by track. Locations can include: LaGuardia Community College, 31-10 Thomson Ave., Long Island City, Queens; General Assembly, 10 E. 21st St., Manhattan

Hours: Full time. In-person, virtual and hybrid tracks available. Exact hours TBD. Expect to do 30+ hours a week of training

Who's eligible: Participants must be authorized to work in the U.S. full-time; not be currently attending college; be unemployed or underemployed (not working full-time); be 17-29 years old; have a high school diploma or the equivalent, and meet all federal selective service requirements. Note: LaGuardia TechHire OpenCode is part of a national study to test if offering individuals skills training and extra support services helps students complete training and find employment in middle-high skill jobs. Students must consent to participate in this study to be enrolled in the program.

Cost: Free

Duration: 6 to 9 months, depending on track

Deadline: Applications are accepted on an ongoing basis. Up to four cohorts will be held in 2020

Info: www.laguardia.edu/techhire-opencode/

Meetups

CODE CREW - LEARN TO CODE!

Monthly meetups provide courses, workshops and networking for those who are interested in honing their coding skills. Topics have covered: HTML, CSS, JavaScript, Node.js, Ruby, Ruby on Rails, Python and more.

Location: Varies

Hours: Varies

Who's eligible: Anyone

Cost: Varies

Duration: Past sessions have lasted two hours

Deadline: N/A

Info: www.meetup.com/codecrewny/

LEARN PYTHON NYC

Whether you're a beginner or intermediate user, these free meetups, held the first Saturday of every month, will strengthen your knowledge of Python. Past sessions have explored Pandas (Python's alternative to Excel), and other aspects of Python development.

Location: 5 MetroTech Center, Room 433, Brooklyn

Hours: 2:30 p.m. to 5:30 p.m.

Who's eligible: Anyone

Cost: Free

Duration: 3 hours

Deadline: Check website for future dates. Sign up required

Info: www.meetup.com/learn-python-nyc/

Open Labs and Project Support

PIZZA & CODE STUDY SESSION / ACCESS LABS

Improve your coding skills, meet other coders and get questions answered at these informal sessions for beginner- and intermediate-level coders offered by New York-based Flatiron School and WeWork.

Location: WeWork DUMBO Heights, 81 Prospect St., Brooklyn

Hours: Varies

Who's eligible: Anyone

Cost: Free

Duration: 3 hours

Deadline: Check online for future sessions

Info: <http://pizzacodestudysession092409al.splashthat.com/Meetup>

SUPERVISED TECH TIME: CREATIVE AND CODING LAB

Need some one-on-one support for a coding project, help with a self-paced online course or have any other tech questions? Stop by one of these one-hour open labs, held at New York Public Library locations. Beginner- and intermediate-level users welcome.

Location: Varies

Hours: Varies

Who's eligible: 18 and older

Cost: Free

Info: www.nypl.org/tech-connect

Programs for Women

GIRL DEVELOP IT

The New York chapter of the national non-profit provides women and non-binary adults with low-cost opportunities to learn software development through in-person programs, mentorship and hands-on instruction.

Location: Varies

Hours: Varies

Who's eligible: Anyone 18 years or older, but the focus is on women and non binary adults. The organization is women inclusive (open to cis, trans, queer, or gender-non-conforming).

Cost: Free networking events and low-cost classes (some costing as low as \$25)

Duration: Classes range from 2-hour workshops to 16-hour sessions split over several consecutive weeks

Deadline: Classes announced 4 to 6 weeks in advance via www.meetup.com/girldevelopit/.

Attendees should sign up at least 24 hours in advance

Info: www.meetup.com/girldevelopit

GRACE HOPPER PROGRAM (GHP)

This engineering program immerses cis women, trans women, and non-binary individuals into the in-demand language of JavaScript, preparing them for careers as full-stack software engineers. The program, administered by Fullstack Academy, teaches front-end and back-end development, plus computer science fundamentals through lectures, hands-on workshops, and portfolio projects. GHP's network of instructors, speakers, students and grads provide a one-of-a-kind support group for participants after the program ends. Since its inception in 2016, GHP has trained more than 500 software engineers and its graduates have been hired at top companies such as Google, Facebook, LinkedIn and more.

Skill level: Intermediate. Applicants need to be familiar with concepts like variables, loops, conditionals, functions, recursion, and general problem solving. Admission involves a rigorous assessment and interview process (which mimics the interview process for a tech job).

Location: Fullstack Academy, 5 Hanover Square, Floor 25, Manhattan

Hours: Weekdays, 10 a.m. to 6 p.m.

Who's eligible: Cis women, trans women, non-binary individuals

Cost: \$3,000 deposit, which is subtracted from \$19,910 total tuition costs. The remaining \$16,910 is deferred to be paid back in nine monthly installments after a graduate secures a full-time, in-field position

Duration: 17 weeks, comprising remote and in-person phases. Remote phase, 4 weeks, 25+ hours per week; In-person phase, on campus, 13 weeks, 45+ hours per week

Deadline: Rolling. Seven cohorts offered each year. Check website for 2020 dates

Info: www.gracehopper.com/apply

Website: www.gracehopper.com

Email: info@gracehopper.com

Phone: 646-828-7156

NYC WOMEN IN MACHINE LEARNING & DATA SCIENCE

The local chapter of this national non-profit offers talks, networking and workshops for those interested in machine learning and data science. Past workshops have covered an introduction to Git and GitHub, while recent talks have covered Facebook AI research and machine learning analytics.

Location: Varies

Hours: Varies

Who's eligible: Women and gender minorities, though the group is inclusive to anyone who supports its mission

Cost: Varies

Info: <http://wimlds.org/> and www.meetup.com/NYC-WiMLDS

CUPCAKES AND CODE: A HACKNIGHT

Bring questions and a project you're working on to these informal sessions designed to help you sharpen your skills, organized by the New York-based tech collective the League of Women Coders.

Location: Varies

Hours: Varies

Who's eligible: Women and women identifying

Cost: Free

Duration: 2.5 hours

Info: <https://www.meetup.com/League-of-Women-Coders/events/264691560/>



THE GUIDE

Cybersecurity

In-person Classes

CYBERSECURITY AND PRIVACY MANAGEMENT

Explore the top business, technical, legal and ethical issues companies and governments face when it comes to cybersecurity and privacy. Through case studies and simulations, sessions cover evaluating cybersecurity and privacy risks; best practices for detection and prevention of data theft; and legal and regulatory privacy and security requirements. This course is offered through Baruch College's division of Continuing and Professional Studies.

Location: Baruch College. Exact location TBD

Hours: Mondays, 6:15 p.m. to 8:45 p.m.

Who's eligible: Anyone

Cost: \$425

Duration: 6 sessions

Deadline: Check back for future dates. Classes capped at 25 students

Info: <https://registration.baruchcaps.com/baruch/course/course.aspx?C=4061>

Website: www.baruchcaps.com/

Phone: 646-491-6687

Career Track Bootcamps, Accelerators and Intensives

CYBERNYC

Learn the basics of industry software and terminology before continuing on to the bootcamp operated by Fullstack Academy software development school in Lower Manhattan (see below). This program is part of a special partnership between LaGuardia Community College, Fullstack Academy and CyberNYC, the City of New York's \$100-million-dollar cybersecurity initiative.

Location: In-person, cybersecurity foundations bridge coursework, LaGuardia Community College, 31-10 Thomson Ave., Long Island City; Cybersecurity bootcamp, Fullstack Academy, Floor 25, 5 Hanover Square, Manhattan

Hours: 30+ hours a week full-time day program. 15+ hours per week part-time evening program

Who's eligible: Participants must be authorized to work in the U.S. full-time, and have a high school diploma or equivalent, basic computer skills (including keyboarding and working with

files and folders) and a demonstrated interest in technology

Cost: Free

Duration: Full-time: 3 months, LaGuardia Community College; 17 weeks, Fullstack Academy.

Part-time: 3 months, LaGuardia Community College, 26 weeks, Fullstack Academy

Deadline: Applications are accepted on an ongoing basis. The first cohort is scheduled to begin January 2020. Five cohorts will be offered throughout a three-year period.

Info: www.laguardia.edu/CyberNYC/

FULLSTACK CYBER BOOTCAMP

The program teaches the skills for a career in cybersecurity, preparing students for two high-demand jobs: security operations center (SOC) analyst and penetration tester. It offers technical training, preparation for top certificates (CompTIA Networking+, CompTIA Security+, OSCP, CISSP Associate) and career development (including an in-house job fair). The bootcamp, launched in 2019, will have trained 72 students across 3 cohorts by the start of 2020. It is offered thanks to a partnership between Fullstack Academy and CyberNYC, the City's \$100-million-dollar cybersecurity initiative.

Location: Remote and in-person. On campus training: 90 Broad St., Manhattan

Hours: Program is split into 3 phases: Foundations (4 weeks, self-study) and the Junior & Senior phases (13 weeks total, on-campus, 10 a.m. to 6 p.m.)

Who's eligible: Full-tuition scholarships are available to New York City residents 18 and older who make \$50,000 or less a year. Recipients should not have previous experience in cybersecurity or be pursuing a degree in cybersecurity. No industry experience is required, but applicants must participate in an in-person interview; pass a logical reasoning test; demonstrate passion for the cybersecurity industry and be committed to the program

Cost: Free to those earning a limited number of full-tuition scholarships. If you don't meet city eligibility for the scholarships, the tuition is \$17,610

Duration: 17 weeks

Deadline: Applicants should check for cohort start dates. There are seven planned for 2020

Info: <https://cyber.fullstackacademy.com/apply>

Email: cyber-info@fullstackacademy.com

PER SCHOLAS TRAINING IN CYBERSECURITY

Participants learn job-related skills (Introductions to Unix/Linux, preparation for Cisco CCNA Cyber Ops certification) as well as receive professional development training in this hands-on program from IT non-profit Per Scholas.

Location: 804 E. 138th St., 2nd Floor, Bronx; 630 Flushing Ave., 6th Floor, Brooklyn

Hours: Weekdays, 9 a.m. to 4 p.m.

Who's eligible: 18 or older and authorized to work in the U.S. Applicants may qualify if they are unemployed or underemployed, and/or receive public benefits, such as subsidized housing or income support

Cost: Free (hardware and materials provided)

Duration: 17 weeks

Deadline: Admissions are rolling. Six cohorts each year (24 students in each cohort)

Application process includes an entrance exam (the Test of Basic Adult Education) and an interview

Info: <https://perscholas.org>

Email: psadmissions@perscholas.org

Phone: 718-991-8400

TECH FUNDAMENTALS

This training course combines hands-on instruction with career prep. It is provided by NPower, a national non-profit that trains veterans and young adults for technology careers.

Location: 50 Greene Ave., Brooklyn; 315 E. 105th St., New York

Hours: Weekdays from 9 a.m. to 1 p.m. or 2 p.m. to 6 p.m.

Who's eligible: 18 to 25 year olds. Participants must be legally authorized to work in the U.S.

Cost: Free

Duration: 23 weeks total: 16 weeks, hands-on training; 7 weeks, paid internship

Deadline: Rolling admissions. Next start date: January 21, 2020

Info: <https://www.npower.org/apply/tech-fundamentals/>

Email: info@npower.org

Phone: 212-564-7010

TECHHIRE OPEN CODE – NETWORK ADMINISTRATION TRACK

This program trains students to work as network security specialists by preparing them for CompTIA A+ and N+ industry certifications. The intensive program offers job search assistance

and career counseling and is one of two job-training tracks offered by LaGuardia Community College's TechHIRE Open Code.

Location: LaGuardia Community College, 31-10 Thomson Ave., Long Island City, Queens

Hours: Part-time. 6 p.m. to 9 p.m., Monday through Thursday

Who's eligible: Participants must be authorized to work in the U.S. full-time; not be currently attending college; be unemployed or underemployed (not working full-time); be 17-29 years old; have a high school diploma or the equivalent, and meet all federal selective service requirements. Note: LaGuardia TechHire OpenCode is part of a national study to test if offering individuals skills training and extra support services helps students complete training and find employment in middle-high skill jobs. Students must consent to participate in this study to be enrolled in the program.

Cost: Free

Duration: 6 months

Deadline: Applications are accepted on an ongoing basis. Approximately 3 cohorts will be held in 2020

Info: www.laguardia.edu/networkplusprogram/



THE GUIDE

Data Science & Analysis

In-person Classes

DATA ANALYTICS WITH EXCEL POWERPIVOT

Learn to use Excel to analyze and manipulate data imported from a range of databases. This course is offered through Baruch College's division of Continuing and Professional Studies.

Location: Baruch College. Exact location TBD

Hours: Saturdays, 9:30 a.m. to 3:30 p.m.

Who's eligible: Anyone. Basic Excel knowledge is necessary

Cost: \$399

Duration: 3 sessions

Deadline: Check website for future dates. Classes capped at 25 students

Info: <https://registration.baruchcaps.com/baruch/course/course.aspx?C=3988>

Website: www.baruchcaps.com/

Phone: 646-491-6687

GET STARTED IN DATA SCIENCE

Gain an understanding of the skillsets data scientists need and Python's role in this field. This class is offered by Noble Desktop, a New York-based tech training company.

Location: Noble Desktop, 594 Broadway, Suite 1202, Manhattan

Hours: Varies

Who's eligible: Anyone

Cost: Free

Duration: One session

Deadline: Contact for future dates

Info: www.nobledesktop.com/seminars/get-started-in-data-science

Website: www.nobledesktop.com

Email: hello@nobledesktop.com

Phone: 212-226-4149

Career Track Bootcamps, Accelerators and Intensives

DATA ANALYST TRAINING ACCELERATOR

A project-based curriculum ensures low-income New Yorkers leave this course job-ready with a portfolio of work to show future employers. The program, a partnership between the City of New York's Tech Talent Pipeline and Galvanize, a technical school, was created using feedback from New York City employers eager to hire trained data and market analysts.

Location: 109 Nassau St., 4th floor, Manhattan

Hours: Weekdays, 9 a.m. to 5 p.m.

Who's eligible: 18 or older. Participants must earn \$45,000 or less a year, be a New York City resident, be authorized to work in the U.S., and have no prior experience working professionally as a data analyst

Cost: Free. Students receive monthly Metrocards for the duration of the program

Duration: 18 weeks

Deadline: Applications accepted on a rolling basis

Info: <https://www.galvanize.com/data-analyst-training-accelerator>

DATA SCIENCE BOOTCAMP PREP

Get introduced to the data science industry with this online course that covers Python and machine learning as well as fundamental data types. The course, provided by the Flatiron School, also offers on-demand support and tools for connecting in real-time to students and instructors.

Hours: Self-directed

Who's eligible: Anyone with intermediate skills

Cost: Free

Duration: 75 hours

Deadline: N/A

Info: www.flatironschool.com/free-courses/data-science-bootcamp-prep

Website: www.flatironschool.com

Email: info@flatironschool.com

Phone: 888-958-0569



THE BEGINNER'S GUIDE TO FREE & LOW-COST TECH COURSES IN NYC

Classes, workshops and meetups across the boroughs teach you the skills you need to land a well-paying tech job

Written by Linda Lacina

Edited by Lisa Arbetter

Illustrations by Erin Rommel

Design by Rebecca Pollock