

SANS 2020

Immersion Academy Annual Report

An accelerated, intensive training and certification program that develops the real-world knowledge and hands-on skills needed to defend today's information security systems.





VetSuccess

Diversity Cyber

Women's

Cyber Workforce

United States Cyber Academy Programs



Immersion Academy Annual Report Introduction Letter

The increasing demand for talented cybersecurity professionals, and the challenge higher education institutions face in educating sufficient numbers of them, is a well-documented problem. However, developing a pipeline of qualified entry- to mid-level cybersecurity professionals doesn't have to be a neverending challenge—there are proven solutions to close the skills gap. We need to change our view of who can be a good cybersecurity professional. The overall problem isn't training the people, it's finding the right people to train.

Over the last six years, innovative approaches in the U.K., U.S., and Canada have successfully leveraged aptitude testing and built sustainable pipelines of diverse, qualified cybersecurity talent. These include the Cyber Immersion Academies. The Academies are proven reskilling and upskilling programs that quickly generate trained and certified professionals ready to work in approximately six months. They provide pathways to a career in cybersecurity for individuals with strong aptitude and passion for cybersecurity such as:

- Women
- · Black, indigenous, and people of color (BIPOC)
- Military veterans

- Career changers
- Recent graduates

Workforce strategies such as reskilling and upskilling are effective ways to address talent gaps and shortages. Historically, these strategies have mobilized industries when shortages are dire. As the demand for cybersecurity professionals grows and other professions decline, reskilling and upskilling will provide displaced workers the skills they need to start a new career. The Cyber Immersion Academies utilize proven aptitude testing to identify high-potential candidates and provide employers an opportunity to hire skilled talent or retrain current employees into cyber. The curriculum is intensive and includes multiple technical training courses and industry-leading certifications.

This report provides detailed information about the Academies including how they work, how to engage with the program and hire graduates, as well as inspiring success stories from graduates and employers who have hired them.

Alan Paller

Director of Research, SANS Institute

Program Overview

The Cyber Immersion Academies are a set of immersive training programs that are producing high-quality cybersecurity professionals ready to enter information security roles immediately upon graduation. The Academies provide advanced technical training, industry-recognized certifications, and connections to jobs in cybersecurity. The Academies are 100% scholarship-based for qualified participants who are looking to enter the field.

VetSuccess Academy

The VetSuccess Academy is a unique opportunity for transitioning military service members, active duty spouses, and veterans who transitioned within the last 10 years to learn in-demand cybersecurity skills and earn GIAC certifications to start a career in cybersecurity. VetSuccess was launched in 2015 and continues to grow each year.

Women's Immersion Academy

This Academy increases gender diversity in cybersecurity by providing women the opportunity to learn in-demand cybersecurity skills, earn GIAC certifications, and start a career in cybersecurity. The Women's Immersion Academy was launched in 2016 and runs annually.

Diversity Cyber Academy

In partnership with the International Consortium of Minority Cybersecurity Professionals (ICMCP), the Diversity Cyber Academy increases diversity in cybersecurity by providing black, indigenous, and people of color (BIPOC) with a passion and aptitude for cybersecurity the opportunity to learn in-demand cybersecurity skills, earn GIAC certifications, and launch a career in cybersecurity.

Cyber Workforce Academy

Additional Cyber Workforce Academies may be designed via partnerships with corporate sponsors and government or nonprofit grant programs.

"I learned a lot in my college program, but the SANS Immersion Academy gave me the ability to learn about topics we never even touched on in school and helped me be more fluent in the field. My employer saw that I had done the courses in three months, so that was an obvious sign to him that I was trainable."

Steve Kalamaras, Security Engineer, CCP

Curriculum & Certifications

Students complete up to three technical courses and industry-leading GIAC certifications

OPTIONAL PREREQUISITE

SANS FOUNDATIONS Computers, Technology, & Security*

*Foundational IT and computing learning for those with no technology background

GIAC CERTIFICATIONS
GSEC GIAC Security Essentials Certification
GCIH GIAC Certified Incident Handler
GICSP Global Industrial Cyber Security Professional
GCFE GIAC Certified Forensic Examiner
GCED GIAC Certified Enterprise Defender
GCIA GIAC Certified Intrusion Analyst
GMON GIAC Continuous Monitoring Certification
GWAPT GIAC Certified Web Application Penetration Tester
GPEN GIAC Certified Penetration Tester

Any set of SANS courses may be combined to create a custom curriculum for your organization's needs.

Statistics

725+ scholarships awarded91% employed within six months of graduation

Core Curriculum Student Performance from 2015 to December 2020



- 93% success rate
- Highest score of 99%
- **85%** overall average
- 86% average for those passing



- 91% success rate
- Highest score of 99%
- 83% overall average
- 84% average for those passing

"When it comes to getting a job, SANS training carries a lot of weight. I noticed that in my interviews. Every time I mentioned that I had been through the program and had earned my certifications, I could see that people simply reacted more favorably."

Dameon Launert

Security Incident Response Center Analyst, Zachary Piper Solutions



\$13,000,000

Approximately \$13 million contributed in scholarships from 2015 to 2020



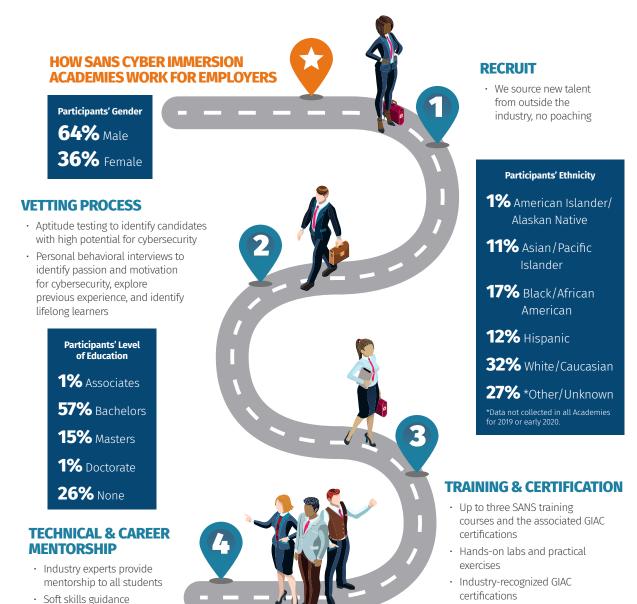
360 hours

Students receive up to 360 hours of hands-on training and skills building

Employer Roadmap

When you have entry- to mid-level cybersecurity positions to fill, SANS Cyber Immersion Academies can help!

SANS Cyber Immersion Academies are a set of immersive training programs that graduate new, highly skilled cybersecurity professionals ready to enter information security roles immediately upon graduation. The Academies provide advanced technical training and industry-recognized GIAC certifications, preparing students to launch a new career in cybersecurity.



To source candidates and share open positions with our students, please email hiringtalent@sans.org.

and career services support

Ways to Engage & Hire Talent

From sponsoring an Academy to hiring graduates, there are a variety of opportunities for employers to engage with the SANS Cyber Immersion Academies. Below are current engagement opportunities. We can also create a plan to meet your organization's specific needs. Contact us at **hiringtalent@sans.org** to learn more about engaging with the Academies and similar programs to meet your hiring goals.

"It was the information learned in SEC401: SANS Security
Essentials that I credit with getting me my first job as
Information Security Analyst at a managed security service
provider. On my interview, I was asked questions that came
straight from my GSEC certification test. In fact, I was hired
before I finished the Diversity Cyber Academy. My interviewers
were very familiar with SANS and understood the superior
training I was receiving."

Anthony Forde, Incident Response Consultant, Cisco Systems Inc.

"The SANS Cyber Immersion Academy provided a great opportunity for us to hire qualified cybersecurity professionals with technical, hands-on skills and GIAC certifications. The graduates are already making a difference in the company and eager to learn more."

SOC Manager

Fortune 500 Financial Services Firm

Employers that have hired Academy Graduates





Booz | Allen | Hamilton



Carbon Black.

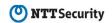






















Ways to Engage & Hire Talent

Sponsorships

Single Scholarship

- · Sponsor a single scholarship for an Academy student
- Recognition as sponsor in marketing materials and on website
- Webinars with cohorts

Strategic Industry Sponsor

- Sponsor five (5) Academy student scholarships
- Access to program students for hiring (no guarantee of hires)
- Distribution of job listings to cohorts
- Recognition as sponsor in marketing materials and on website
- Webinars with cohorts

Annual Program Sponsor

- Sponsor an Academy cohort (12 students)
- First access to students for hiring (no guarantee of hires)
- Distribution of job listings to cohorts
- Branded cohort with company name
- Recognition as sponsor in marketing materials and on website
- Introductions to target students for interviews
- Webinars with cohorts
- · Dedicated press release and social media posts

Partner Options

Employer Partner

- Share your organization's open cybersecurity roles and meet, interview, and potentially hire Immersion Academy graduates
- A one-on-one webinar to Academy students and grads showcasing your organization, the culture, the types of security jobs you have, and what the day in the life of one of these positions looks like
- Logo placement on SANS Immersion Academy website that highlights your commitment to diversity and inclusion

Community Partner

- Share Immersion Academy information with your network, contacts, and social media channels
- A one-on-one webinar to Academy students and grads showcasing your organization or association
- Logo placement on SANS Immersion Academy website

Mentor Partner

- Share your cybersecurity expertise with Academy students
- Provide career support and advice to Academy cohorts
- Help graduates make connections to other cybersecurity professionals

Hiring Talent

When you are looking to hire new cyber talent, we have a unique pipeline filled with certified candidates ready to start a new career. We will share your job postings with our graduates and connect you with eligible candidates. Contact hiringtalent@sans.org to get started!

Success Stories

"The SANS Cyber Immersion Academy gave me the hands-on training employers were looking for. Going through the courses, coupled with the additional services they offered, helped me successfully transition and gave me opportunities I wouldn't have had otherwise."

Chris Harper

Senior Cybersecurity Analyst, Craina Consulting

"I tried everything, including landscaper, snowboard instructor, caregiver, fast food worker, and dog trainer. I found my niche when I entered the cybersecurity industry. This was definitely what I was meant to do."

AJ Langlois

IT Risk and Security Consultant MetLife

"Chris Harper was a GREAT hire.
I have been highly impressed by
his real-world technical skills and
competencies and his valuable
military experience. Chris now provides
cybersecurity engineering support to
an Army Medical system that he uses
as a combat medic when on active
duty. His ability to meet the complex
demands of the job is a testament to
his world-class SANS training."

Thomas El-Khatib

Founder and President, Craina Consulting

"The Cyber Immersion Academy graduate we hired joined the Cyber Threat Management team and had an immediate positive impact. She quickly garnered the respect of her teammates as she is able to apply the skills acquired though the SANS Cyber Immersion Academy daily to the benefit of BB&T."

Hartwell Watkins

VP, Manager-Cyber Threat Operations Center and Threat Intelligence, BB&T

Success Stories



Richard Dinio
Senior Electronic
Warfare Technician,
Tekla Research Inc.

"I found that most other certification programs are a two-week data dump and then a test. The SANS Cyber Workforce Academy – Maryland offers a strong hands-on component to the program. I don't have a technical background, so this real-world experience was terrific."

Richard Dinio was a signals intelligence analyst in the U.S. Navy, where he focused on electronic warfare for more than 22 years. Richard was responsible for collecting and processing airborne, shipborne, and land-based radar signals.

Today, Richard is a Senior Electronic Warfare
Technician in Engineering at Tekla Research
Inc., where he is responsible for cyber testing
and evaluating military helicopters. Tekla
provides technical and engineering support
and management expertise to the Department
of Defense. Richard examines mission systems
in helicopter avionics and looks at all threat
vectors, enterprise and non-enterprise, to mitigate
nefarious activities that could jeopardize a mission.

While no longer in the U.S. Navy, Richard continues to serve our country by ensuring that military aircraft can meet today's challenges and respond to growing cyber threats.

"The day Rich came aboard at Tekla Research, he was thrown into the fire as the cybersecurity test expert, alone and unafraid. Rich's cybersecurity training and his experience as a Navy Chief Petty Officer enabled him to adjust to the new environment, learn the aircraft systems and laboratory capabilities for cyber testing, and get integrated as the cyber lead on many projects. I believe SANS Cyber Workforce Academy provided a firm foundation in cybersecurity and enables Rich to envision potential threat vectors and system vulnerabilities in light of cyber-related test requirements for the systems and projects that he supports."

Ivan Thomas

Senior Analyst, Tekla Research Inc.



The most trusted source for cybersecurity training, certifications, degrees, and research

To learn how the SANS Immersion Academies can help your organization assess, train, certify, and hire highly skilled cybersecurity talent faster and more efficiently, please contact:

For Academies immersionacademy@sans.org

For Hiring hiringtalent@sans.org



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