A Celebration of Delaware's Cybersecurity Talent Discovery Leaders

Appoquinimink High School

Brandywine High School

Caesar Rodney High School

Calloway (Cab) School Of The Arts

Cape Henlopen High School

Charter School Of Wilmington

Concord High School

Delmar High School

Delmarva Christian Schools

Dover High School

Early College High School At Delaware State University

First State Military Academy

Indian River High School

Mckean (Thomas) High School

Middletown High School

MOT Charter School

Newark Charter School

Padua Academy

Polytech High School

Smyrna High School

St. Elizabeth School

Sussex Academy Of Arts And Sciences

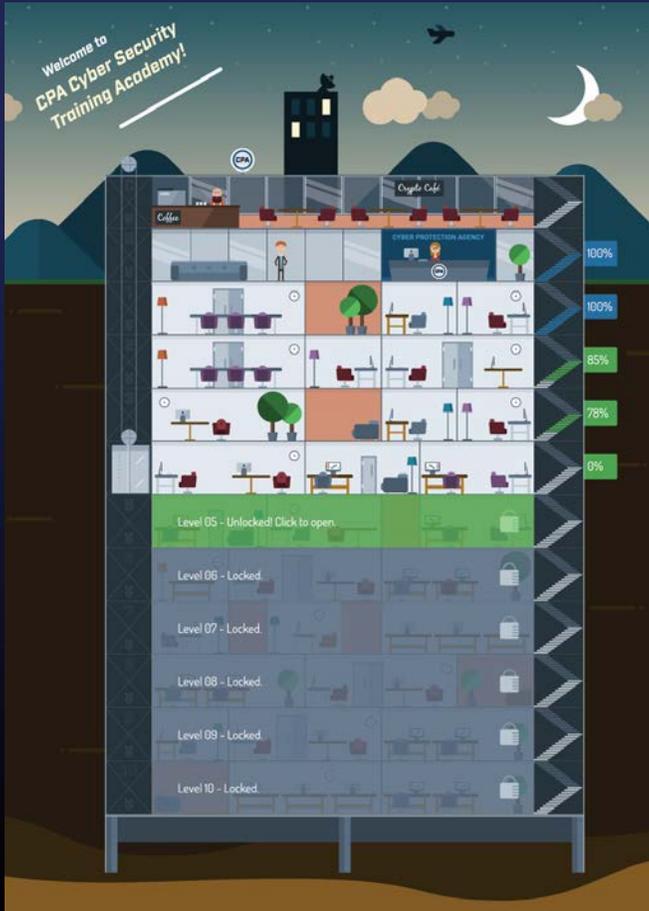Delaware State University

Delaware Technical Community College

University of Delaware

Wilmington University
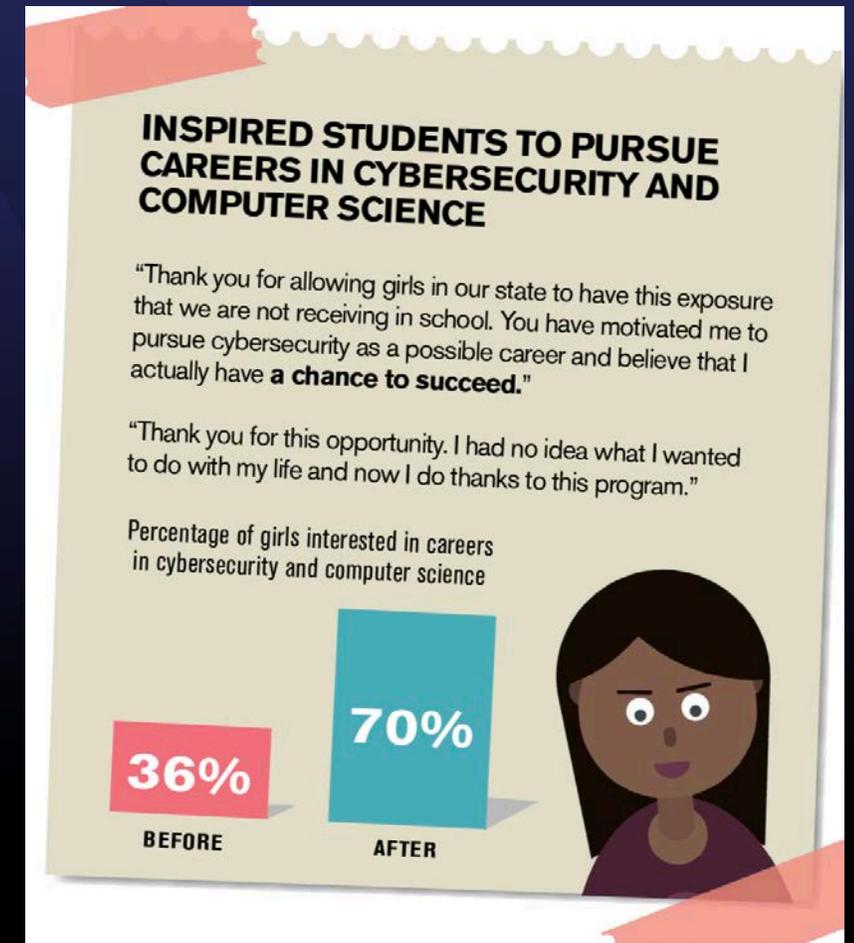
The challenge they are helping to solve

- Online technologies and cyber criminal techniques are becoming more sophisticated. Cyber risk is now a greater concern for CEOs than recession (Fortune Magazine).

- There is a significant global shortage of skilled, trained cyber security professionals. Many talented young people have no idea this is an area where they could excel or how much fun it can be.

- To fill this critical manpower gap, many more young people need to be offered the opportunity to discover whether they like the challenges and whether they have the aptitude to excel.

The UK's discovery: CyberStart

A suite of **challenges and games that:**

- Introduce young people to the field of cyber security

- Develop and nurture their interest in the subject

- Inspire them to pursue careers within the sector

Part 1. Delaware's High School Leaders
(Girls participating)

Delaware high school teachers encouraged 143 girls to try CyberStart – ranking the state 8th out of 27 states in participants per million.

92 girls (64%) were able to solve at least one challenge

MOT Charter School	28
Padua Academy	28
Charter School Of Wilmington	18
Newark Charter School	12
St. Elizabeth School	10
Polytech High School	9
Caesar Rodney High School	7
Appoquinimink High School	6
Delmarva Christian Schools	5
Brandywine High School	3
Cape Henlopen High School	3
Dover High School	3
Plus 10 more with 1 or 2 participants	

High School $500 Scholarships

- **Charter School Of Wilmington**
  - Cathy Chian
  - Emily Oldham
  - Isabel Snyder
  - Kathryn Zhang
  - Maya Bordrick

- **Mot Charter School**
  - Jocelyn Bartsch

- **Padua Academy**
  - Miranda Evans
  - Samantha DiVirgilio
  - Sarah Mee

- **Polytech High School**
  - Keirsten Liberti

Final Results for Girls Go CyberStart

1st in Del.	Charter School Of Wilmington	22nd in nation	
2nd in Del.	Padua Academy	29th in nation	
3rd in Del.	MOT Charter School	67th in nation	

- Girls in 8 high schools won 50 CyberStart licenses for the boys in each of their schools
- 10 girls won $500 college scholarships
- Delaware total: $8,450 in Amazon gift cards and college scholarships

What about college students?

Cyber FastTrack
the reliable pathway for talented college students to qualify for cyber careers and find great jobs

CYBER FAST TRACK: The Reliable Pathway for Talented Students to Move into Valuable Cyber Jobs - Quickly
Free , open to all community college and 4-year college students

Cyber Fast Track

1 **Discover** if you like cyber and you can be good at it CyberStart Game

"The most fun I have had learning." (Adam, community college freshman)

"I loved CyberStart challenges – the coolest game I ever played." (Frank, community college)

"Taught me a lot and proved cybersecurity wasn't too hard to learn." (Mariana, college sophomore)

- No previous cyber or IT experience required
- More than **340 fun challenges** protecting real-world bases
- Available **completely online**

2 **Master** the essentials CyberStart Essentials course

Teaches how core technologies actually work and are attacked

On-line, **hands-on immersion training**

"This course helped make it possible for 51 people with no IT security experience to master more advanced cybersecurity courses and get good cyber jobs." (UK Cyber Retraining Academy director)

Category/Topic	Level
Linux	4
Windows	2
Computing	3
Networking	5
Programming	4
Common Attacks	4

"We now hire cyber people only if they have mastered the essentials. Without these skills they are useless in technical roles." (CISO, multi $billion Silicon Valley tech leader)

3 **Win** 100% Scholarship for the SANS Applied CyberSecurity Academy

$22,000 worth of SANS immersion training and certification exams

Middle State accredited upper division certificate

Stackable certifications

GSEC

GCIH

6

4 **Cyber FastTrack Employment Interviews**

- You have demonstrated you are in the top 2% of all college students studying cybersecurity
- Cool employers need you.

Part 2. Delaware's College Leaders
Male and female students participating in Cyber FastTrack

Wilmington University	75
Delaware Technical Community College	28
University of Delaware	11
Delaware State University	4

Part 2. Delaware's College Leaders
Semi-finalists who won CyberStart Essentials

Wilmington University	4
Delaware Technical Community College	2
University of Delaware	2
Delaware State University	2

Collegiate $500 Scholarships

- **Delaware State University**
  - Aldo Almeida
  - Bland Wallace
- **Delaware Technical Community College-Terry**
  - Kyle Bischof
- **University of Delaware**
  - Patricia Lehman
- **Wilmington University**
  - Kelley Arthur
  - Neil Hawkins
  - Tymere Henry

13,300 challengers → 100 winners

- Took on the challenge: 13,300
- Quarter finalists excelled on Assess: 2,579
- Semi-finalists excelled in Game: 541
- Winners did well on SANS Cyber Aptitude Test, CyberStart Essentials Course, and professional qualities: 100

100 winners

- From 63 colleges in 28 states
- 25% Female
- 13% Minority
- Average age: 28 (range 18-63)

Delaware's College Leaders
Winners of $22,000 scholarships for Cyber FastTrack Academy

Wilmington University	2
University of Delaware	1

Delaware: 3 winners of 118 participants
      2.5 per hundred

National: 100 winners out of 13,300 participants
      0.75 per hundred

Goals for this year?

2020 Goal for Delaware's Colleges
Participants and participants per 1,000 students

2019 results:

Wilmington University	(75)	5 /1000
Delaware Technical Community College	(28)	2 /1000
University of Delaware	(11)	0.5/1000
Delaware State University	(4)	1 /1000

2020 Goal: Enable more college students to discover their talent by increasing participation rates in the colleges – possibly to 5/1000 statewide – total 275+

2020 Goals for Delaware's High Schools

Double the number of high schools, double the number of girls per high school, increase the number of schools where boys get to play, too.

Number of teachers involved: 22 → 44
Number of participants per teacher: 6.5 → 13
Total girls participating: 144 → 572

Schools where boys play, too: 8 (400) → 12 (600)

Awards