



# Cyber Security Workforce Development

# BECOMING AMERICA'S CYBER CAPITOL

- 65 of 105 companies want PPCC grads
- Firms locate close to workforce
- Only the National Capitol Region has more NSA Centers of Excellence
- Location quotient is third highest in US



# Degrees and Certificates

## AAS Degrees

- *CIS*
- *Networking Technology*

## Certificates

- *CCNA*
- *Cisco*
- *Cyber Security*
- *Database*
- *Network+*
- *Programming*
- *Security Essentials*

## AS Degrees

- *Computer Science*

- 439 students in AAS programs for AY2017  
(10% increase over prior year)
- 40-50 graduates annually  
(138 certificates earned in AY17, up 50%)
- 21 Cyber Security students
- 78 students in Computer Science AY2017  
(58% decrease over prior year- WHY?)

# THE PROBLEM

- *Instruction lags industry in content and speed*
- *Instructors make more doing than teaching*
- *Labs are expensive and tools change regularly*
- *Cyber job functions broad and requirements a barrier to some potential students*

# PPCC SOLUTION

- Non-Credit Training
- CAE2Y: *Center of Academic Excellence*
- Industry Partnerships:
  - Curriculum input
  - Instructors
  - Student work experience
  - Employee training
  - Lab support



# NON-CREDIT TRAINING

**Courses began October 2016 – 70 graduates**

Certified Ethical Hacker: 20

Network+: 13

Security+: 37

**A+ begins *September 19***



# CAE2Y CERTIFICATION

- Application submittal January 2018
- Certification Fall 2018
- Cyber-savvy workforce
- AAS in Cyber Security
- New labs



[ppcc.edu/cyber-defense-center](http://ppcc.edu/cyber-defense-center)

# INDUSTRY PARTNERSHIPS

- Cyber Prep Internships and Support
- Apprenticeship Sessions
- Customized Workforce Training (\$100k)
- Expanded Advisory Board
- New Instructors
- Labor Market Survey
- Chamber and EDC Strategic Planning
- Catalyst Campus



# HOW CAN YOU HELP?

- A+ Internships, Donations, Speakers
- Employer Engagement
  - ✓ Apprenticeships
  - ✓ Workforce Training
  - ✓ Labor Market Survey
- High School Program Support

# For More Information

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