

Greater Pittsburgh CISO Group

Peer Networking Group Meeting

October 09, 2024



Agenda

- Welcome and Rapid Greater PGH CISO Chapter Business Update (5 Mins)
- Topic Presentation "Quantum Cryptography and Post Quantum Encryption" (45 min)- Junyu Liu
- Apprenti PGH Program Update (10 Mins)
 Lelia Broughton
- Cyber Hub PGH Program Development Update (10 min) – Marie Pelloni
- Happy Hour and Food @ Federal Galley, Roll over next store the Federal Galley for open Networking
- Adjourn

Event calendar

- □ IT DLP Cohort 7 (Oct 10)
 - ☐ 17 Ennrolled
- □ Combined CIO/CISO Networking Event (Dec 04)
- □ IT DLP Mentor/Mentee Social (Spring 2025)





Dynamic Distribution Groups



ciso@pgh-cio.com

35 Active Members



cio@pgh-cio.com

66 Active Members



Thank You.

The CISO Advisory Board

Matt Siconolfi- Chair- ivision Mike Conley, Industrial Scientific Dave Coughanour, Ansys Tom Dugas – Duquesne University Dr. Trebor Z. Evans – Dollar Bank Susan Koski - PNC Julie Ray- US Steel Justin Swanson – ConnectiveRX

The CIO Advisory Board

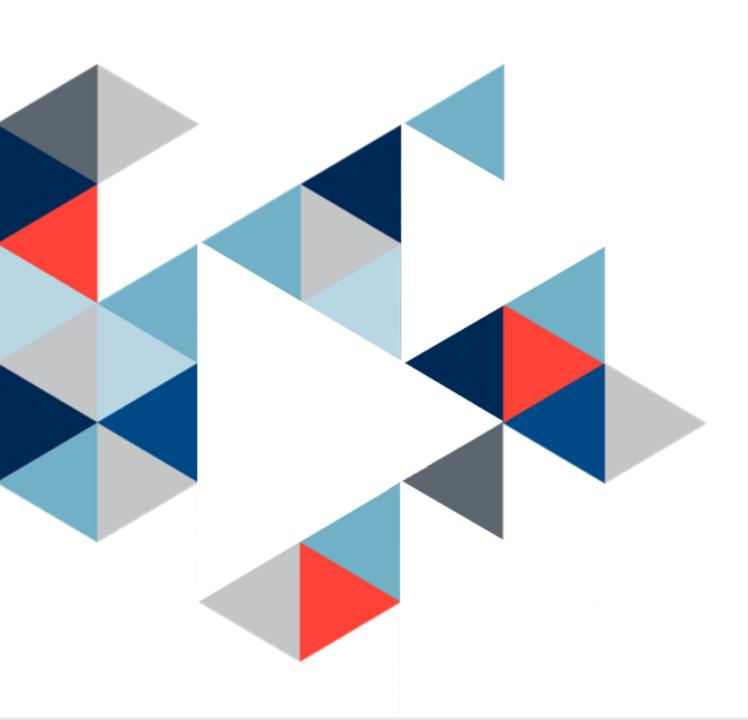
Matt Siconolfi- Chair - ivision Mike Abram — Westinghouse Bill Fortwangler — Dollar Bank Katherine Karolick - Armada Tushar Lovalekar - Koppers Jack Smith — Federated Hermes Jack Wolford — Schneider Downs Justin Denham — Brentwood Bank



Quantum Cryptography and Post Quantum Encryption

Liu Junyu

University of Pittsburgh, School of Computing and Information



APPRENTI

Paving the path for talent in tech.





Apprenti PGH

Bridging the opportunity divide between tech talent and diversity in the workplace.





Introduction to Apprenti PGH

Apprenti PGH is an alternative pathway into entry level IT jobs through apprenticeship

Focus: Providing opportunities for underserved populations and communities, veterans, women, and people of color

Company Overview

Apprenti PGH is a state and federally registered apprenticeship program customized to maximize entry level tech talent to fit the needs of employers while eliminating barriers for perspective job seekers.

The Apprenti Process

Apprentice Journey

Assessment & Sourcing



1.5 and 10 month mark

Interview with employer



Interview and select apprentice

Begin Related Technical Instruction



Designate mentors and managers

Join team



Initiate Work Plan

Retained!



Convert to permanent

Employer Journey

On-The-Job Training



Length

This training will last 2000 hours or 1 year



Mentorship

The company is to provide a mentor for the apprentice



Wage Progression

The apprentice will be on a wage progression schedule The first 1000 hours /6 months they will make 60% of their final salary and for the final 1000 hours /6 months they will make 70 % of their final salary



Completion

When the year is completed, they are transitioned out of the apprenticeship as fullfledged journey workers at 100% of their wages



Retention And Diversity







47 Apprentices

- · 48% African American
- 12% Latinx
- 12% Asian
- 38% Caucasian
- 60% Women
- 7% Veteran

Completion Rates:

 95% through Technical Training and 97% On-The-Job Training



Apprenti Impact





Apprentices are

retained



Current Employer Partners





















Upskill



Upskilling Pathway





Employee Assessment

Alternatively, employers have the option to upskill an existing employee. In this scenario the employee would still need to take and pass the assessment.



Step 2

After passing the assessment the employee that is being upskilled will then start technical training



Occupations & Training



Software Developer/Analyst
14-19 weeks training



IT Support Professional 13-15 weeks training



UX Designer 14-16 weeks training



Cybersecurity Analyst 12-16 weeks training



Data Analyst 10-13 weeks training



CRM Administrator 6-8 weeks training



CRM/CMS Developer 13-16 weeks training



IT Business Analyst 10-12 weeks training



Web Developer 12-14 weeks training



Cloud Operations Specialist 1 & 2 13-16 weeks training



Systems Administrator 13-16 weeks training



- Software Test Manager
- Game Developer
- Business Intelligence Engineer
- Marketing Manager
- Sourcing Recruiter
- · Information Security Engineer
- · Network Security Administrator
- Sign Language Interpreter
- Building Controls



DevOps Specialist 16-18 weeks training



Technical Sales Specialist
8-12 weeks training



Questions?





Cyber Education & Workforce Development Hub

To implement a hub for fostering and accelerating cybersecurity education and workforce development activities in Southwestern Pennsylvania.



To bring together regional employers, industry group, labor organizations, training providers, and other organizations to participate actively in the development and delivery of cyber education.





The Cyber Hub will become an online clearinghouse and opt-in list serve of cybersecurity education, development, career awareness and jobs in the region.

- Career Awareness
- Pipeline Development
 - Talent Recruitment
- Education and Training for Post-Secondary Education
 - Remain Responsive

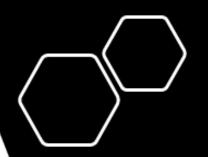
Proposed Outputs

Improved coordination between industry and education sectors, improving links between classroom skills and on-the-job skills

Proposed Outcomes

Awareness of cybersecurity job opportunities and career paths among high school and higher education students in the region.





Potential
Services of a
Regional
Cyber Hub
Survey