Pgh-cio.com

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)

The Greater Pittsburgh
CIO GROUP

Dynamic Distribution Groups

ciso@pgh-cio.com   35 Active Members

cio@pgh-cio.com   66 Active Members

The Greater Pittsburgh
cio GROUP

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

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Quantum Cryptography and Post Quantum Encryption

Liu Junyu

University of Pittsburgh, School of Computing and Information

APPRENTi™
Paving the path for talent in tech.

Pittsburgh Technology Council

Apprenti PGH

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

DIGITAL SKILLS SHORTAGE   DIVERSITY IN THE WORKPLACE

APPRENTI.

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	Interview with employer	Begin Related Technical Instruction	Join team	Retained!
Meet with Apprenti 1, 5, and 10 month mark	Interview and select apprentice	Designate mentors and managers	Initiate Work Plan	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 full-fledged journey workers at 100% of their wages

Retention And Diversity

ApprentiPGH Diversity and Retention

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

97%

Apprentices are retained

32

Average age

Current Employer Partners

enGen

SHEETZ

GRAYMATTER

Wolfe

>BNY

INDUSTRIAL SCIENTIFIC

CGI

sdlc 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

DevOps Specialist
16-18 weeks training

Technical Sales Specialist
8-12 weeks training

For more information about:

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

Contact Apprenti today!

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Questions?

Thank you

Contact Us

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Director of Workforce Innovation

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Cyber Education & Workforce Development Hub

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

WHAT?

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.

WHY?

Go-To Clearinghouse

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