

# RX5 PUBLIC PRIVATE PARTNERSHIP

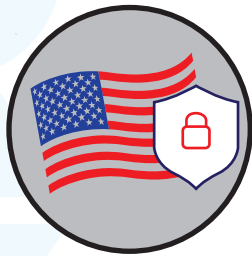
*Cybersecurity National Workforce Training Pilot*

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## MISSION

Co-Founded by Captain Tim Holden, U.S Navy Seal (Retired) to support our Nation's Security, the Hyman Rickover inspired Cybersecurity National Workforce Training Initiative is a Public Private Partnership (P3) that aims to train and provide Veterans (1st and Highest Priority) as well as clearable American citizens access to career jobs in Cybersecurity. The program focuses on networks that control critical infrastructure as well as the federal government in order to ensure our nation is prepared to face the threat of cyber crime and terrorism.

## RX5 CORE GOALS



Strengthen U.S.  
National  
Security



Promote U.S.  
Economic  
Stability



Provide U.S.  
Cybersecurity &  
Workforce  
Training



Cultivate  
Opportunities  
for Veterans



Support Economic  
Development for  
Diverse Populations



Cybersecurity  
In Focus.

Global Cybersecurity Skill Shortage + Increased Budgets =

# OPPORTUNITIES

According to the State of Cybersecurity: Implications for 2015 report, cybersecurity now has executive support and increased budgets. Yet, there is still a shortage of skilled professionals. The solution includes hands-on training and trusted credentialing.



## Why Cybersecurity

In the last two years, demand for cybersecurity professionals has soared. Interest in cyber defenses has permeated every domain of the workplace, from retail to healthcare. Government organizations such as the Central Intelligence Agency and The International Information Systems Security Certification Consortium (ISC)2 have reported that the market growth potential for cybersecurity will continue to rise, ironically, in a country that is experiencing a “security talent crunch.” There are currently 209,000 unfilled cybersecurity jobs in the United States and that number is expected to reach 2 million worldwide by 2019. In order to meet the demands, the breach in national security has to be urgently handled. For a market that is expected to generate over \$65.5 billion (2016-2020) for the federal government, and over \$155.74 billion for the private sector, the need for trained, talented individuals becomes critical.



## Opportunities for Veterans

According to the Bureau of Labor Statistics (BLS), the employment rate for young veterans is 2-3% lower than their non-veteran colleagues. In 2015, young veterans faced greater challenges when securing a job, in part due to their lack of work experience in a competitive environment and difficulty translating the service on the battlefield to a civilian equivalence. Additionally, a large proportion of resources that were once available to the veterans no longer became accessible to them post-service. RX5 will train and provide its members with skills and work experience to ensure job security. The strong work ethic (discipline, teamwork, integrity) of military personnel and their robust background in defense and military operations qualifies them as ideal candidates for the program.



Cybersecurity  
In Focus.

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# OPPORTUNITIES

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## THE ROLE IS IN DEMAND

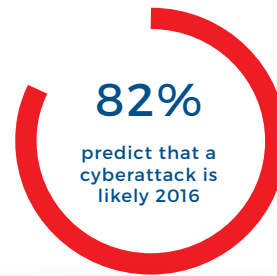


**MORE THAN  
400 MILLION**  
records of personal  
information  
stolen



**8 out of 10**  
board of directors  
are concerned with  
cybersecurity

**\$400 BILLION**  
Cost of cyber attacks on  
companies each year



2

## FILLING IT IS DIFFICULT

**209,000+**  
cybersecurity  
jobs in the U.S.  
are unfilled



- 35% unable to fill open positions
- 53% say it takes 3-6 months to find qualified candidate
- 16% feel at least half of their applicants are qualified

3

## THE IDEAL PROFESSIONAL

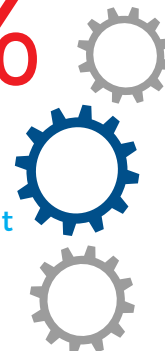


**89%**

Of U.S. consumers believe that cybersecurity professionals must have certifications

**33%**

Say hands-on  
experience is  
most prevalent  
in qualified  
candidates



**61%**

say technical  
skills are required

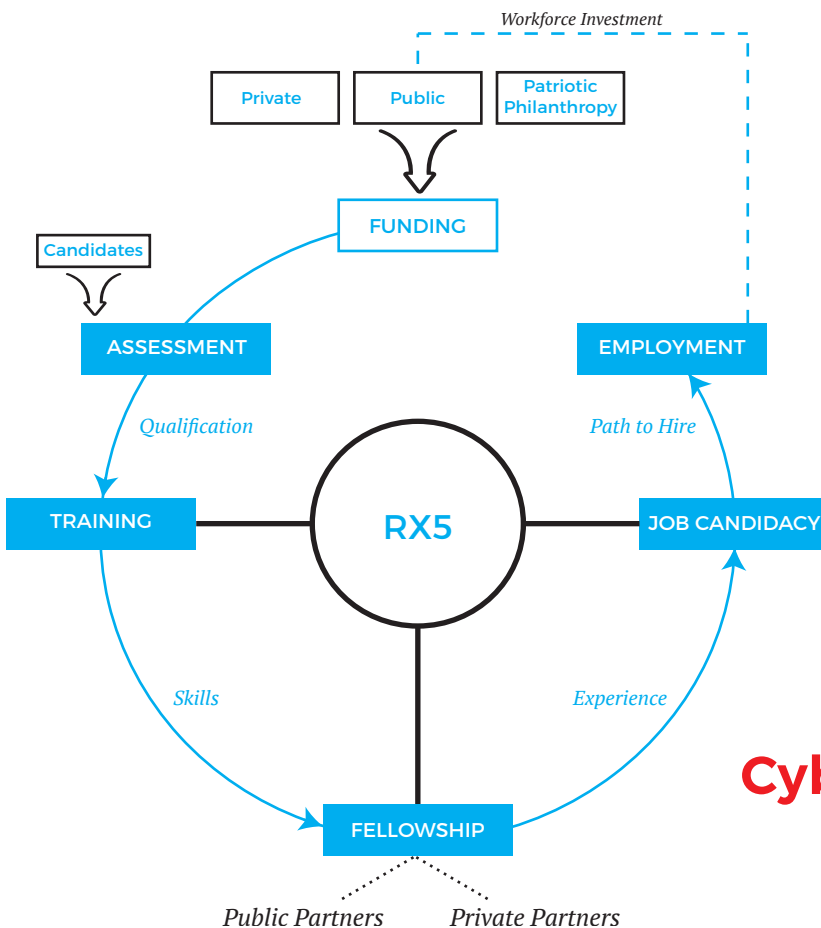


# RX5 OVERVIEW

UMBC Training Centers has been successfully providing Cybersecurity Workforce Training to a number of strategic government agencies for many years, and has a dynamic model in place. UMBC Training Centers continues to contribute to our nation's cyber defenses, supporting military elements within the Department of Defense (DoD), commercial entities, and other government organizations.

RX5 will provide highly-focused skills training and practical experience to address the cyber workforce training needs of the military, the intelligence community, federal civilian agencies, and the commercial sector. After the RX5 candidates complete 18 weeks of Cybersecurity Training, they will be placed in a special RX5 fellowship for an additional 12 weeks of hands-on Cybersecurity Workforce Training.

## RX5 P3 PATHWAY



## P3 Partnership

- Public Agency
- Private Sector
- Education in Partnership

## Committee Members

- **Joanne Benson**  
*Maryland State Senator*
- **Admiral Anthony Watson**  
*U.S. Navy (Retired), CEO LandMatters*
- **Tom Sadowski**  
*University System of Maryland  
Vice Chancellor of Economic Development*
- **Gib Mason**  
*COO UMBC Training Centers*
- **J. Edward Whitehead**  
*Director U.S. RX5 P3*
- **Terry Lawlah**  
*Maryland Center at Bowie State University  
Executive Director*

## Cyber Warriors of Tomorrow

- Veterans (transitioning/unemployed)
- Wounded warriors
- Clearable citizens



# RX5 COURSES

*RX5 courses will deliver a focused set of skills for immediate, on-the-job effectiveness to enable the participants to tackle real-world situations. Individuals will be able to solve complex problems in a fast-paced world filled with technological changes and evolving threats.*

*The program will also provide practical hands-on application and cumulative exercises to reinforce the theory behind the technology involved. To ensure the demands of the IT and cybersecurity industries are met, the curriculum aligns with the National Institute of Standards and Technology (NIST) release of the National Initiative for Cybersecurity Education (NICE) Framework.*

## RX5 INDUSTRY RECOGNIZED CERTIFICATES

- CompTIA A+
- CompTIA Network+
- CompTIA Security+
- Interconnecting Cisco Network Devices 1 (ICND1)
- EC-Council Certified Ethical Hacker (CEH)



## RX5 CURRICULUM



### CYBER FOUNDATIONS

- Computer Basics:  
Hardware, Architecture  
Operating Systems  
Troubleshooting
- TCP/IP & Networking Fundamentals
- Information Assurance Fundamentals
- Cyber Foundations Capstone



### CYBER ENABLEMENT

- Windows Internals & Command Line Interface
- Critical Thinking, Logical Reasoning & Structured Analytic Techniques
- Introduction to Ethical Hacking
- Tools & Methodologies
- Python Scripting & Programming



### ROUTING, SWITCHING, & PACKET ANALYSIS

- Cisco Router and Switch Configuration & Administration
- Network & Packet Analysis
- Routing, Switching & Packet Analysis Capstone



### PENETRATION TESTING & MALWARE ANALYSIS

- Penetration Testing Methodology
- Malware Triage
- Overall Program Capstone



### LINUX TRAINING

- Linux Fundamentals
- Linux System Administration
- Linux Capstone



# WHY INVEST IN RX5

Most executives today realize the value of training employees to provide skills and meet competitive challenges. Two of those challenges involve maintaining our workforce and protecting the cybersecurity standards of our organizations. In fact, most executives recognize that training is important for securing our information and our operations at a level that encourages efficiency and economic prosperity while promoting privacy and business confidentiality. RX5 addresses these issues by providing cyber training and InfoSec certifications to promote operations safety. The return on investment (ROI) is in the form of a higher quality trained workforce that has the knowledge and skills to sustain a positive impact on the organization.

In addition to a high financial ROI, investors can expect to benefit from an expanded workforce, one that is more diverse and inclusive. RX5 is focused on educating a diverse group of people, from veterans to underemployed and unemployed, clearable citizens. Such diversity facilitates culturally competent public relations and builds a high-performing workplace. It also builds teamwork, cooperation, and decisiveness. A more productive work environment then becomes conducive to a higher ROI.

## PARTICIPANT PATHWAY



### ASSESSMENT

*Finds candidates with the aptitude and passion for the program*

- Find Candidates
- Assessment Costs



### TRAINING

*18 weeks with over 700 hrs. of training gives participants the knowledge they need.*

- Training Costs
- Participant Stipends



### FELLOWSHIP

*12 weeks of real world experience provides participants with the hands on learning and experience they need to succeed.*

- Develop Fellowships
- Participant Stipends



### JOB CANDIDACY

*RX5 will provide participants with job placement services (Ninja Jobs) to help make employment a reality.*

- Provide Placement Services



### EMPLOYMENT

*RX5 provides participants with all the tools they need to reach the ultimate goal of employment.*

- Administration cost of running program

**\$30k/per candidate**  
**\$600k/per cohort**



**INTERESTED IN  
SUPPORTING **RX5** ?**

**Email us at:**

[RX5@umbctraining.com](mailto:RX5@umbctraining.com)

Thank you!



# RX5 PRICING

per  
**STUDENT**

per  
**COHORT**

## BASE TRAINING *(required)*



ASSESSMENT



TRAINING



ADMINISTRATION

**\$ 19,500**

**\$ 390,000**

**+** *add-on*  
**STIPENDS**



TRAINING



FELLOWSHIP

**\$ 5,000**

**\$ 100,000**

**+** *add-on*  
**PLACEMENT FEE**



**\$ 4,000**

**\$ 80,000**

**+** *add-on*  
**FELLOWSHIP  
DEVELOPMENT**



**\$ 1,500**

**\$ 30,000**