RX5 PUBLIC PRIVATE PARTNERSHIP
Cybersecurity National Workforce Training Pilot

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
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.
Global Cybersecurity Skill Shortage + Increased Budgets = OPPORTUNITIES

1 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

82% predict that a cyberattack is likely 2016

77% saw an increase in cyberattacks in 2015 over 2014

$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

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

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

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.

**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

ASSSESSMENT
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

Thank you!
### RX5 PRICING

**BASE TRAINING** (required)

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<thead>
<tr>
<th>Description</th>
<th>Per Student</th>
<th>Per Cohort</th>
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<td>ASSESSMENT</td>
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<td>TRAINING</td>
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<td>ADMINISTRATION</td>
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**Add-on Costs**

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<tr>
<th>Description</th>
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<td>FELLOWSHIP DEVELOPMENT</td>
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