

Tobi West
Principal Investigator
Coastline College

NSF Grant Award #1800999



Agenda

- Background on Coastline College
- Need for Incident Response Professionals
- Overview
- Advisory Board
- Approach
- Curriculum Development
- Program Development
- Faculty & College Support



Current Program

Developing Cybersecurity Talent

CAE_CDE since 2014







Better Prepared for Industry Roles in Cybersecurity & Computer Networking



Pathways to Success





NSF Award #1800999



CYBERSECURITY BUSINESS REPORT

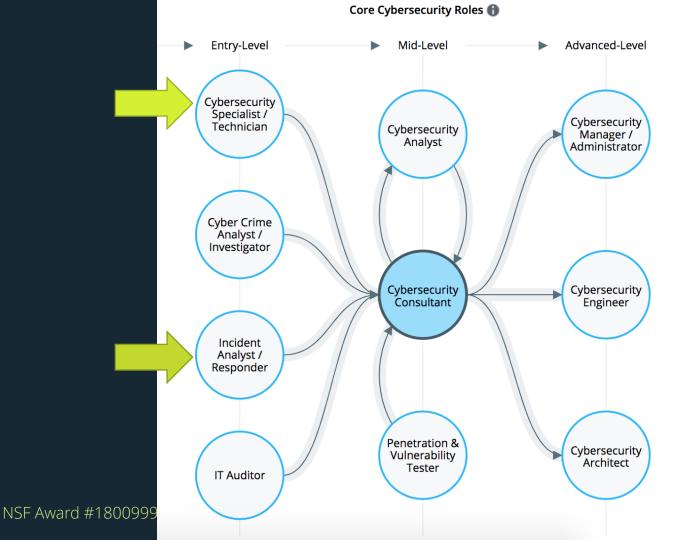
By Steve Morgan, CSO | JUN 6, 2017 7:09 AM PT

NEWS

Cybersecurity labor crunch to hit 3.5 million unfilled jobs by 2021

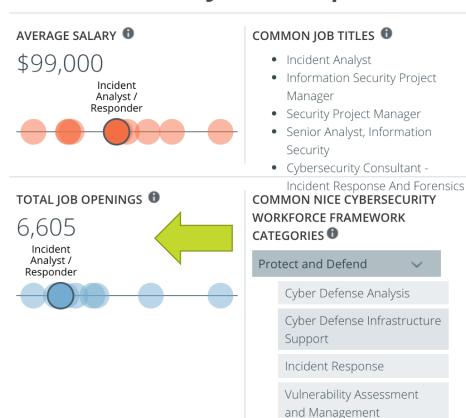
The cyber crime epidemic is expected to triple the number of open positions over the next five years

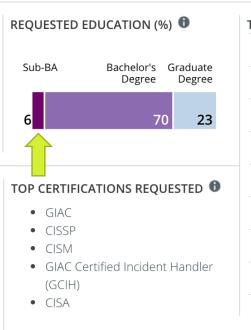






Incident Analyst / Responder





TOP SKILLS REQUESTED 📵	
1	Information Security
2	Project Management
3	Information Systems
4	Linux
5	Network Security
6	Intrusion detection
7	UNIX
8	Security Operations
9	Vulnerability assessment



Overview

- October 2018 through September 2021
- Work with Advisory Board of industry professionals
- Fully develop 6 courses
- Write a Certificate and an AS degree



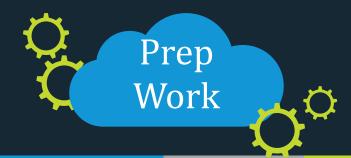
Adapt & Adopt

- NICE Workforce Framework Protect & Defend
- Research textbooks
- Research industry certifications
- Other Programs Daytona State & Union County & Champlain College



Details

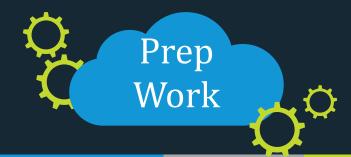
- Platforms
 - Canvas LMS
 - Netlab remote lab access
- Addition of co_PIs
 - Anna Carlin, Fullerton College
 - Dr. Nancy Jones, Coastline College
 - Dr. Aeron Zentner, Coastline College
- Addition of External Evaluator





Proposed Course Schedule

- Spring 2019 Cybersecurity Analyst+
- Summer 2019 Intro to Network Forensics, Incident Response, & Threat Hunting
- Fall 2019 Advanced Digital Forensics
- Spring 2020 Legal Aspects of Cyber Crime
- Fall 2020 Reverse_Engineering_Malware: Malware_Analysis_Tools
- Spring 2021 Applied Cyber Forensics Capstone





Proposed Advisories

- 1 Introduction to Security
- 2 Linux+
- 3 Introduction to Python
- 4 Introduction to Computer Forensics
- 5 Ethical Hacking



Program Planning & Initiatives

CST Program Growth



8 program courses, careerreadiness workshops, industry relationships

Cybersecurity Apprenticeship Program







Develop courses and run a regional academy

Develop a degree and courses with Business Department



Data Analytics

Contact Info



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COASTLINE COLLEGE







CA CYBERSECURITY

APPRENTICESHIP PROGRAM

