CERAS

The Center for Education and Research in Information Assurance and Security



Abstract

While students work hard through their undergraduate careers, many still struggle to get a job right after graduation. This study seeks to figure out why and help undergraduate students go the extra mile to help them secure a job. A survey was sent out to industry professionals to help understand their expectations of students and their perspectives on the matter.

Background

In the past, similar studies have found:

- Students lack soft skills
- Students lack knowledge in data-related knowledge areas
- More collaboration between school-industry required

Methodology

- Developed a survey with open-ended, multiple-choice, and Likert questions.
- Distributed survey to industry partners.
- Analyzed data to determine what recent grads are lacking

Research Question

- Where do recent graduates fall with regards to industry requirements?
- How to bridge the gap between recent graduates and industry requirements?

Impact

- Help universities improve their programs to benefit students
- Encourage universities to partner up with industry and prepare a curriculum

NIST NICE Framework

- The framework served as inspiration for questions •
- It has seven categories, thirty-three specialty areas, and fifty-two work roles.
- Created to assist in the expansion of a

Gaps Identified Previously

 Data evolution analysis, Data visualization Identifying the relevance Tracing and identifying of data •Data protection in a sensitive manner

the source of data Understanding the value

Help Students identify points of improvement

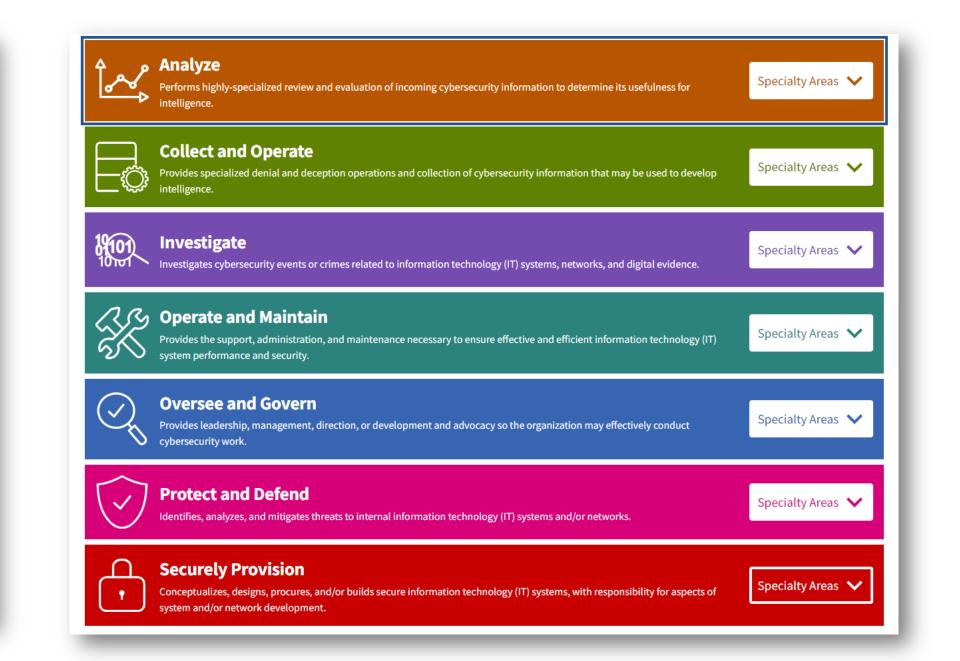
cybersecurity team within the industry

 Identifying connections •Data collection •Understanding datadriven business models

of data/data interpretation •Developing data-based solutions

Rank the following categories from most to least important in cybersecurity right now (drag to move).

Analyze
Collect and Operate
Investigate
Operate and Maintain
Oversee and Govern
Protect and Defend
Securely Provision



How important do you feel the following categories are in cybersecurity?

	Not at all important	Slightly important	Moderately important	Very Important	Extremely Important
Analyze	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc
Collect and Operate	\bigcirc	\circ	\bigcirc	\bigcirc	\circ
Investigate	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Operate and Maintain	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Oversee and Govern	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Protect and Defend	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Securely Provision	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc



