Hacking Your Cybersecurity Career

Ron Woerner
Bellevue University

> The more things change, the more they stay the same.
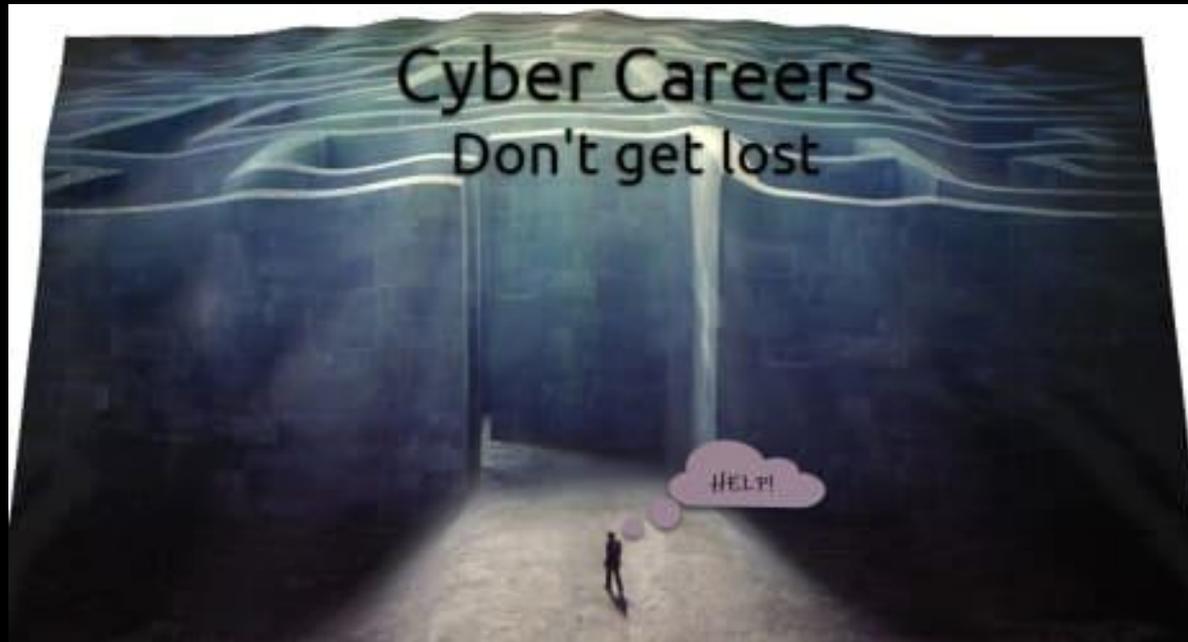>
> ~ Alphonse Karr

I'd tell you who I really am, but do you really care?

Ron Woerner

Cybersecurity Professor, Bellevue University

IT Consultant

How do I get a job in Cybersecurity?

Blogs & Resources

- *Choosing Your Cybersecurity Career Path*: https://www.peerlyst.com/posts/choosing-your-cybersecurity-career-path-ron-Woerner

- *Breaking into Security Careers - 2018*: https://www.peerlyst.com/posts/breaking-into-security-careers-2018-ron-woerner

- Cybersecurity Careers: Hacking Your Next Job: https://www.peerlyst.com/posts/cybersecurity-careers-hacking-your-next-job-ron-woerner

- Peerlyst Career Wiki - https://www.peerlyst.com/posts/a-collection-of-links-about-transitioning-into-infosec-or-starting-an-infosec-career-and-making-it-peerlyst

Blogs & Resources

- Peerlyst PeerTalk Panel - Career Routes & Diversity: https://www.peerlyst.com/posts/peertalk-panel-career-routes-and-diversity-request-for-questions-rosie-anderson
  - *Please use this for your questions and comments*

- Peerlyst Career Wiki - https://www.peerlyst.com/posts/a-collection-of-links-about-transitioning-into-infosec-or-starting-an-infosec-career-and-making-it-peerlyst

Cybersecurity Jobs Report 2018-2021

Cybersecurity Ventures predicts there will be 3.5 million cybersecurity job openings by 2021

https://cybersecurityventures.com/jobs/

https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm

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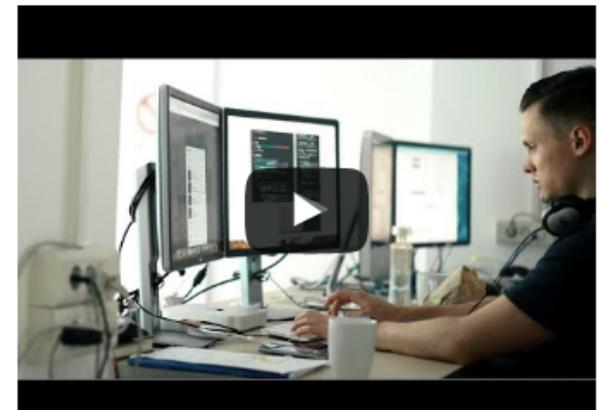# Information Security Analysts

PRINTER-FRIENDLY

Summary | What They Do | Work Environment | How to Become One | Pay | Job Outlook | State & Area Data | Similar Occupations | More Info

Summary

Quick Facts: Information Security Analysts	
2018 Median Pay ?	$98,350 per year $47.28 per hour
Typical Entry-Level Education ?	Bachelor's degree
Work Experience in a Related Occupation ?	Less than 5 years
On-the-job Training ?	None
Number of Jobs, 2018 ?	112,300
Job Outlook, 2018-28 ?	32% (Much faster than average)
Employment Change, 2018-28 ?	35,500

What Information Security Analysts Do

Information security analysts plan and carry out security measures to protect an organization's computer networks and systems.

Work Environment

Most information security analysts work for computer companies, consulting firms, or business and financial companies.

How to Become an Information Security Analyst

Most information security analyst positions require a bachelor's degree in a computer-related field. Employers usually prefer to hire analysts with experience in a related occupation.

Pay

The median annual wage for information security analysts was $98,350 in May 2018.

7

Goals

- Landing and keeping a [job](#) in cybersecurity

- What's best for your Cybersecurity [career](#): a [certification](#) or a degree?
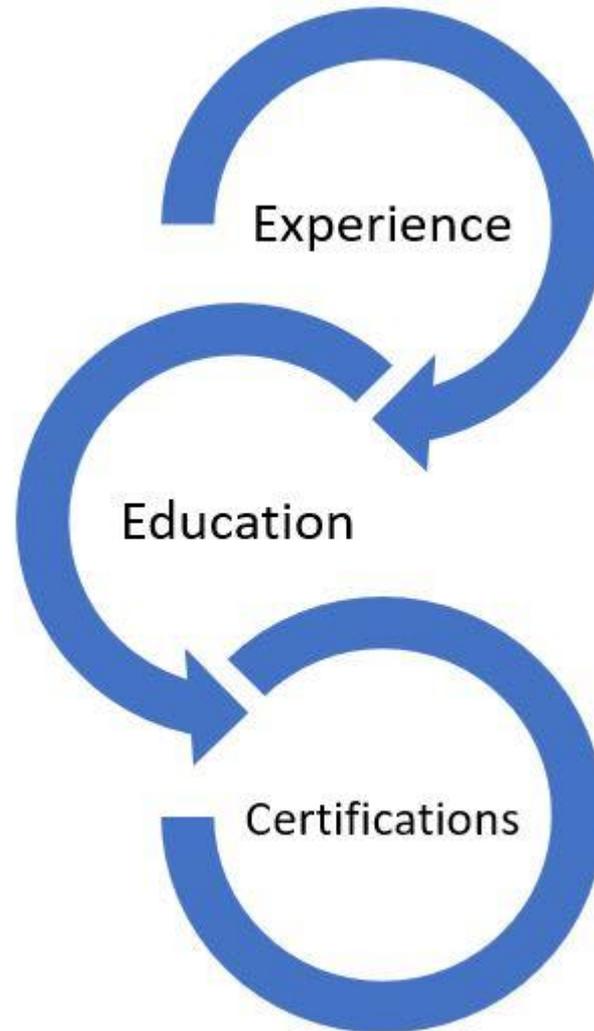
- [Strategic](#) (GRC) vs. Tactical (Technical)

WARNING

RANTING AHEAD

USE CAUTION

Requirements

Experience

Education

Certifications
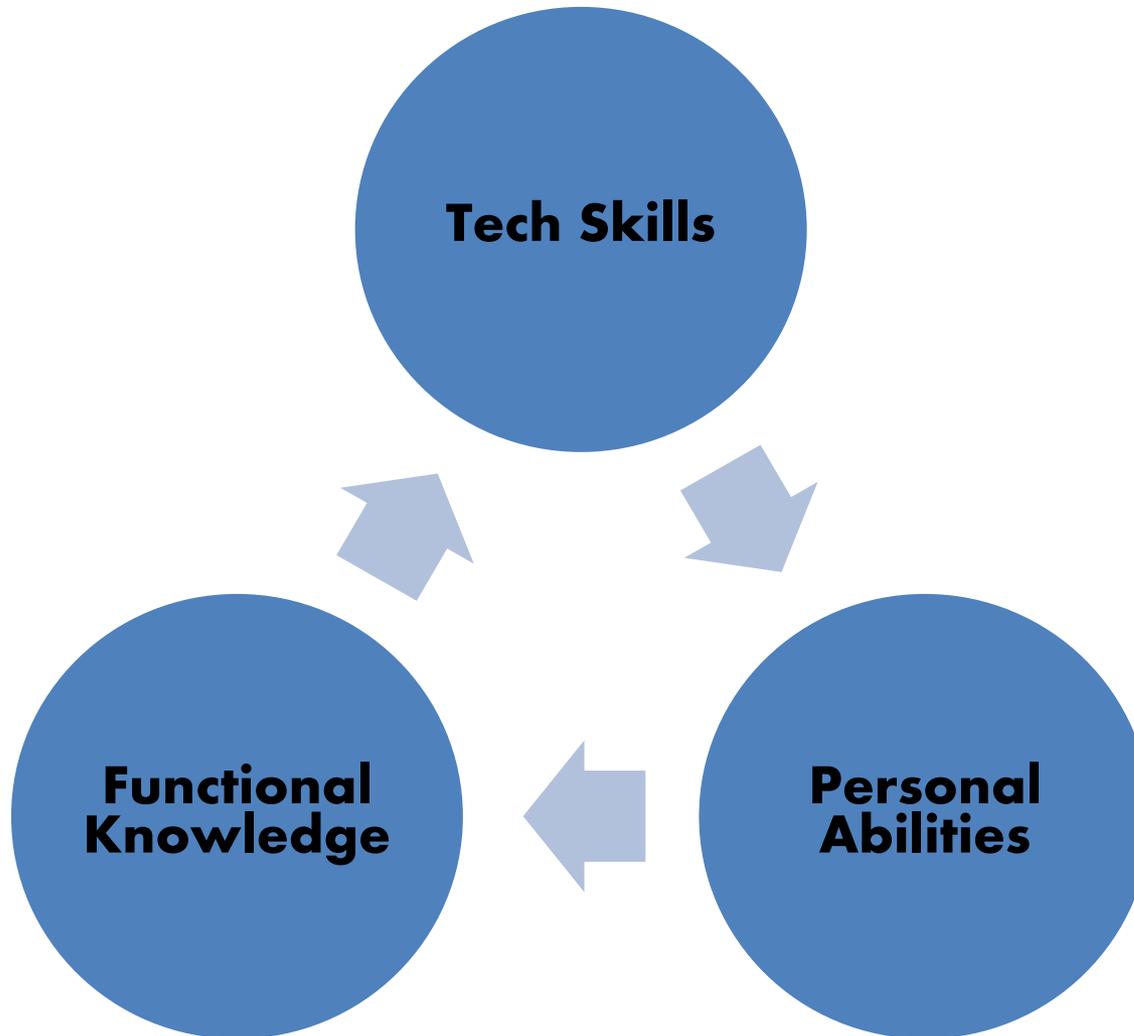
Requirements

Getting Experience

- Practice, practice, practice
  - Set up your own home lab
  - Mentor
  - Volunteer
  - CTFs
- Get your foot in the door
  - PC Support / Technician
  - Help / Service Desk

Cybersecurity Career Paths

- ## Strategic
  - GRC / Policy
  - Management
  - IT Audit

- ## Tactical
  - Technical
  - Systems administration, networking, application security, security operations, incident response, vulnerability management, and penetration testing
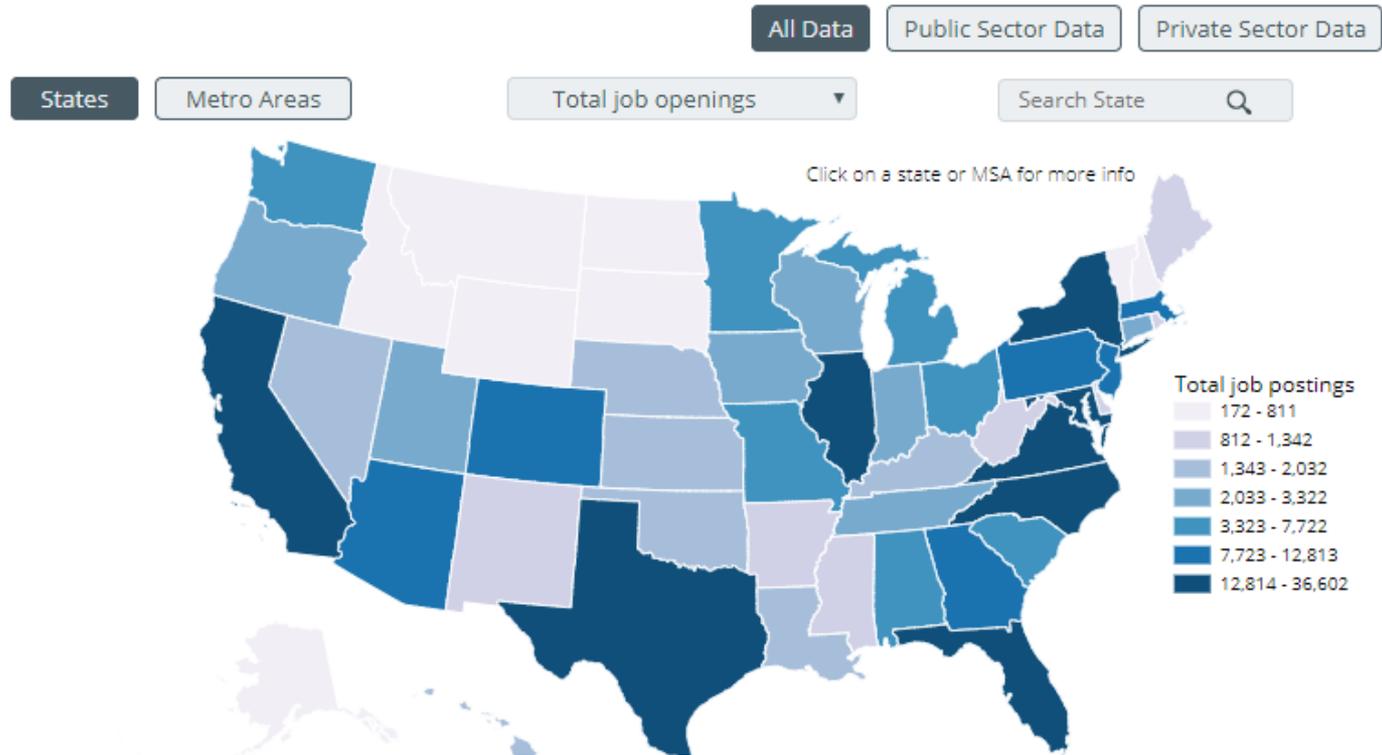
Cybersecurity Career Pathway

https://www.cyberseek.org/pathway.html

https://www.cyberseek.org/heatmap.html

Ron Woerner, RWX Security Solutions

Building Knowledge

- Education / Degrees

- Training / Certifications

Certifications

- ISC^2
- ISACA
- SANS
- Offensive Security
- EC-Council

Other stuff you need / Functional Abilities

- Attitude (preferably good)
- Communications (Writing & Speaking)
- Teamwork
- Critical Thinking
- Tenacity

Hacking Your Career Tips

- Visualize Your Goals – what do you want to be when you grow up & why?

- Social Engineer Your Next Boss

- Be Open to Opportunities

- Actively Learn

- Practice, Practice, Practice

- Be a Hacker

Networking
(the human kind)

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- "Breaking into Security," (podcast), Renee Small and Christophe Foulton, https://podcasts.apple.com/us/podcast/breaking-into-cybersecurity/id1463136698

- [Breaking Into Information Security](#), (book)

Others?

Solution = Kids

http://www.uscyberpatriot.org

OWN IT.
SECURE IT.
PROTECT IT.

OCTOBER 2019
National Cybersecurity Awareness Month
#BeCyberSmart

https://staysafeonline.org/ncsam/

Tuesday, Oct. 22, 2019
8 a.m.-4 p.m.
Southeast Community College
8800 O St., Lincoln, NE

Early Bird Rate (by Sept. 20): $99
Education Rate: $79
Regular Rate (after Sept. 20): $119

Register Today! http://bit.ly/ncscregister2019

Keynote Speaker

Chris Schreiber

Swimming with Sharks: Understanding and Countering Cyber Threats

Learn How to Protect Your Organization From Phishing Email Attacks!

Wednesday, October 31, 2018
Time: 8:30 am – 11:00 am

8:30 am – 9:00 am   Registration and Breakfast
9:00 am – 11:00 am   Keynote/Breakout Sessions

Metropolitan Community College - Fort Omaha Campus
(5370 North 30th Street Omaha, NE 68115)
**Center for Advanced and Emerging Technology
Building 24**

PROGRAM TOPICS

The Social Engineering of Phishing Scams
Karla Carter, Cybersecurity Professor, Bellevue University

What is Phishing/How Does Your Company Protect Its Information
Gary Sparks, Information Technology Instructor,
Metro Omaha Community College

**Combating Phishing Attacks in Larger Organizations
and Financial Institutes**
Kerry Kremke, CSO, Blue Cross and Blue Shield of Nebraska
Jeff Weeks, SVP and CISO, First National Bank

**RSVP: Go to bbb.org/Nebraska and click on the
"Cybersecurity Event" tab on the top of the page.**

Ron Woerner, RWX Security Solutions

Security Groundhog Day

I'M A RODENT, NOT A CYBERSECURITY EXPERT

Ron Woerner

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