



CAREERS IN COMPUTING & INITIAL CAREER STRATEGIES

Dr. Nazli Hardy, MBA, PhD

FIGURE 1: AVERAGE SALARIES BY DISCIPLINE / BACHELOR'S DEGREES

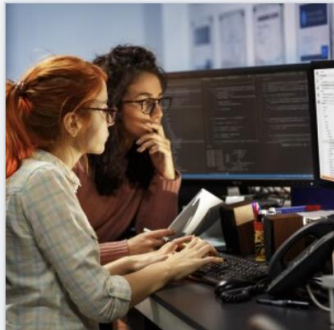
BROAD CATEGORY	2023 SALARY PROJECTION	2022 SALARY PROJECTION	% CHANGE
Engineering	\$74,405	\$73,922	0.7%
Computer Sciences	\$72,843	\$75,900	-4.0%
Math & Sciences	\$67,199	\$66,760	0.7%
Business	\$62,069	\$60,695	2.3%
Social Sciences	\$60,107	\$61,173	-1.7%
Agriculture & Natural Resources	\$59,282	\$57,807	2.6%
Communications	\$58,097	\$55,455	4.8%
Humanities	\$52,938	\$50,681	4.5%

Source: NACE Winter 2023 Salary Survey



WHAT ARE CAREER OPTIONS IN CS

According to projections by the US Department of Labor's Bureau of Labor Statistics, computer-related jobs are expected to be among the fastest-growing occupation through 2024.



Software Developer

🏆 #1 in 100 Best Jobs

Software developers need to be innovative, creative and, of course, technical in order to succeed in this field. They might write new code or fix bugs in code to make it work better. [Read More »](#)

Projected Jobs
370,600

Median Salary
\$120,730

Education Needed
Bachelor's



Information Security Analyst

🏆 #5 in 100 Best Jobs

As concern about cybersecurity grows, so does the demand for information security analysts. It is the duty of these professionals to prepare and carry out security measures that protect a company's computer networks and systems. [Read More »](#)

Projected Jobs
56,500

Median Salary
\$102,600

Education Needed
Bachelor's

<https://money.usnews.com/careers/best-jobs/rankings/the-100-best-jobs>

<https://www.nacweb.org/job-market/compensation/salary-for-class-of-2023-computer-sciences-grads-expected-to-fall-but-demand-remains-strong/>

KEY ROLES



Programmers build the software that solves problems



Systems analysts document systems and propose solutions



Project Managers supervise, organize, and coach team members



Database developers ensure data is accessible when it is needed



Network administrators are involved in every stage of network planning and deployment.

SOME
CAREER
DIRECTIONS
IN CS

Data scientist

Software tester

Web developer

Systems analyst

Business analyst

Product manager

Network architect

Software engineer

Software developer

Full-stack developer

Engineering manager

SOME
CAREER
DIRECTIONS
IN CS

Engineering manager

User interface designer

Database administrator

Cloud computing engineer

Information security analyst

Computer science professor

Chief information security officer

Software quality assurance manager

Information technology specialist

Mobile application designer or developer

Research and development (R&D) scientist

Computer scientist or computer science researcher

Artificial intelligence and machine learning engineer

SOME
RELATED
CAREER
DIRECTIONS

- Health Care Business Analyst
- Health Data Analyst
- Computer Support Specialist
- Computer Network Specialists
- Database Administrator
- Information Technology Analysts
- Information Technology Leadership
- Information Security Specialist
- Network Administrator
- System Engineer
- System Administrator
- Web Developer

ADVANTAGES?



CHALLENGES?

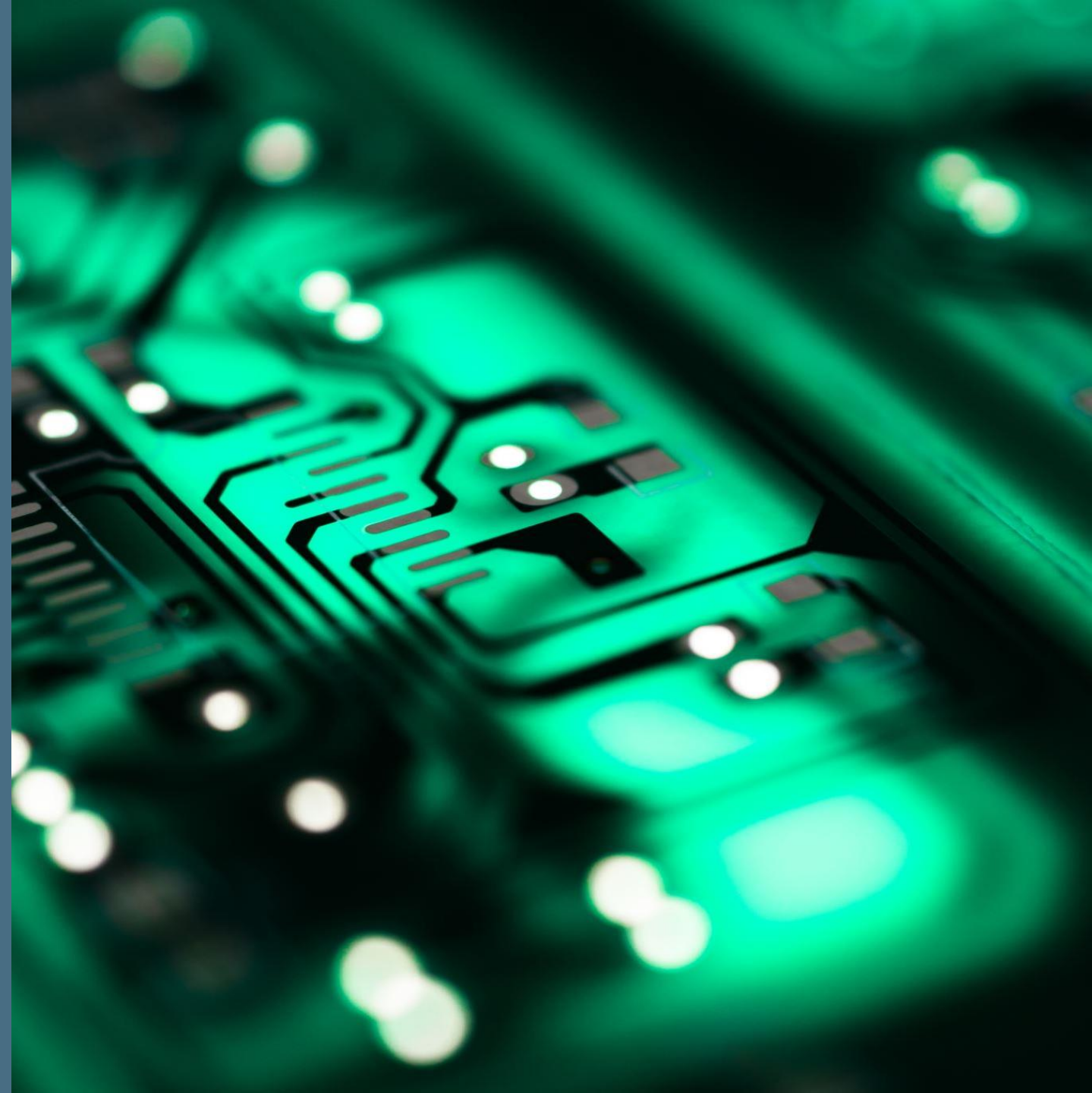
NEXT STEPS

Connect	connect with your CS professors (future references)
Find	find supportive mentors (faculty and upperclassmen)
Try	try different upper level courses
Focus on	focus on your interest(s) & related topics
Do	do a research project with a professor
Find	find a related internship
Apply	apply for jobs and/ or graduate school
Network	
Certifications	Depending on the job

ADDITIONAL SOURCES

- <https://blogs.millersville.edu/news/2020/08/24/job-demand-leads-to-new-it-degree-at-millersville/>
- <https://www.indeed.com/q-Entry-Level-Computer-Science-jobs.html?vjk=b2bc43e51034acda>
- <https://www.computerscience.org/careers/>
- <https://www.thebalancecareers.com/top-jobs-for-computer-science-majors-2059634>
- LinkedIn, Monster, Indeed, TechCareers, JustTechJobs, ComputerJobs

1. WHAT DO
YOU WANT
TO DO WITH
YOUR
DEGREE?



2. WHAT
MATTERS
MOST TO
YOU IN
LIFE?



CONSIDER IF
1. & 2. ARE
CONNECTED?





DRESS FOR SUCCESS

- Business
- Business Casual
- Informal



CONFIDENCE

- Know you don't know everything (and don't focus on that)
- Own your mistakes (because you are going to make many)
- Know that nobody knows everything
- AND Digital image (email and social media)