

# MICS Career Services Overview

Mary McHale  
MICS Career Advisor

**Berkeley** SCHOOL OF  
INFORMATION



# Agenda

1 Career Outlook and Outcomes

2 Career Services

3 Job Search

4 Maximize Your I School Experience



# Cybersecurity Careers



# Cyber Industry Trends

- A.I. Will Continue to Dominate the Tech Conversation
- It's the Economy, Stupid
- Cybercrime Continues to Challenge Tech Pros
- International Concerns Bring Cyber Risks Home
- Better Software Starts With Security

\*Dice

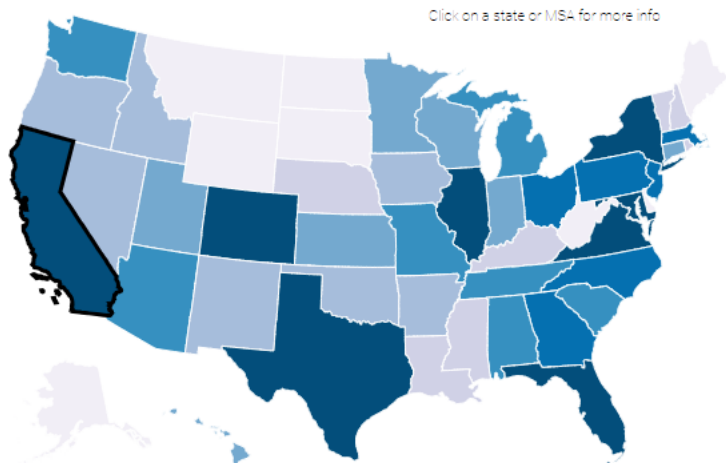
# Cybersecurity Job Market 2024

- Cyber security is an ever-growing industry. It is projected to **grow 32%** from 2022 to 2032- faster than average. *US Bureau of Labor Statistics -*
- Today-mixed bag - growing number of people in cyber, still a serious shortfall, companies are dealing with budget cuts and economic uncertainty
- Employers excited about **MICS program & UCB brand**
- **Networking and building trust** is extremely important
- Salaries vary widely according to role and location - commonly \$100K - \$250K Executive range from \$250K - \$450K

# Top Cybersecurity Skills ISC2 Survey

- AI (34%)
- Cloud computing security (30%)
- Zero trust implementation (27%)
- Digital forensics and incident response (25%)
- Application security (24%)

# Cyber Supply/Demand Heat Map



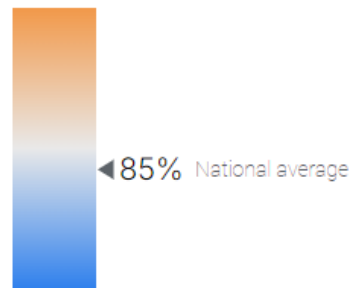
<https://www.cyberseek.org/heatmap.html>



## National Level

SUPPLY/DEMAND RATIO ⓘ

NATIONAL, 2024



TOTAL CYBERSECURITY JOB OPENINGS ⓘ

NATIONAL, 2024

469,930



TOTAL EMPLOYED CYBERSECURITY WORKFORCE ⓘ

NATIONAL, 2024

1,239,018







UC Berkeley Named #1 Online Master's in Cybersecurity

Berkeley SCHOOL OF  
INFORMATION

## Ranked the #1 Online Master's in Cybersecurity

by *Fortune Magazine*



**FORTUNE** | EDUCATION

ARTICLES RANKINGS ▼ MORE ▼

### 1. University of California–Berkeley

Berkeley, CA

The University of California–Berkeley doesn't require applicants to submit a GRE score to qualify for admission into its online master's degree program in information and cybersecurity. Last year, students accepted into this program had a 3.46 undergraduate GPA and 10 years of work experience, on average. International applicants are required to submit TOEFL scores and the program has a one-year retention rate of 95%. Two letters of recommendation are required for the 27 credit-hour program.



Getty Images



# Career Outlook and Outcomes



# MICS Graduate Outcomes and Observations

- May make job changes any time....while in the program or several months after graduation
- Frequently move between technical, policy, management and roles
- Students and alumni working in industry, government, consultancy, and defense

## Master of Information and Cybersecurity (MICS)

The interdisciplinary MICS degree is an innovative, part-time, fully online program that focuses on the intersection of cybersecurity's technical, social, political, economic, legal, and ethical components. The program provides hands-on practical experience with security systems and applications, and the ability to lead, manage, and contribute to building cybersecurity solutions.

### 2023 Alumni Profile\*

82 graduates

9.78 average years work experience prior to start of program

36.59% 62.20%

Female Male

### Median Salary

\$159,000

RISK/COMPLIANCE/AUDIT/POLICY (10%)

Sr. Cybersecurity Design Specialist  
Analyst

OTHER (10%)

Principal Security Architect

MANAGEMENT/LEADERSHIP (15%)

Vice President of Tech Ops and Security  
Vice President of Information Security

CYBERSECURITY RESEARCH (3%)

Sr Cybersecurity Engineer

IT ADMINISTRATION (3%)

Information Management Specialist

SOFTWARE ENGINEERING (42%)

Lead Product Security Engineer  
Software Engineer  
Information Security Engineer  
DevSecOps Engineer

CONSULTING (10%)

Cybersecurity Architect  
Director  
Cybersecurity Consultant

MACHINE LEARNING (3%)

THREAT DETECTION / INCIDENT RESPONSE (3%)

Cyber Security Specialist

SECURITY OPERATIONS (3%)

Technical Support Engineer

Alumni Career Fields & Titles

### CAREER OUTCOMES

41% of respondents received a salary increase

59% attribute job changes/salary increases to MICS

84% say MICS contributed positively to career

41% started a new job during or after MICS

### SELECTED EMPLOYERS\*\*

accenture Booz | Allen | Hamilton



COX AUTOMOTIVE DELL



flatiron. GUARDED



Microsoft NETFLIX netlify proofpoint.

SAP savvymoney slalom T-Mobile

\* This report represents the 4146% of graduates who responded to the career outcomes survey. 38% of graduates reported their salary data. Data is collected for six months after graduation.

\*\*This is a partial list of employers for 2023 respondents. This list is meant to demonstrate the range of companies across industries where MICS graduates are employed and is not all-inclusive. Company logos are public domain, via Wikipedia Commons.

# MICS Alumni Salary Data 2023

- Median Salary - \$159,00
- Additional Benefits-Health, Yearly /performance bonus, 401 K, Tuition, Moving Expenses RSU/Stock, Signing bonuses

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**59%**

attributed new jobs and salary increases to MICS

**84%**

believe MICS contributed positively to their career

**76%**

are using MICS in their current job

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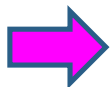
Of those with new jobs/responsibilities...

**73%**

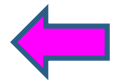
Reported salary increase

**86%**

Believe MICS contributed to job/salary changes



*Please complete the Career Outcomes Survey upon graduating*



# Early-Mid Career Roles

- Software Engineer
- Security Engineering Intern
- Cybersecurity Threat Analyst
- Security Analyst
- Privacy Program Manager
- Network Administrator
- IT Audit
- Test Engineer
- Cybersecurity Consultant
- Applications Software Engineer
- Security Program Manager

# Experienced Career Roles

- Pen Tester
- Senior Engineer, Software, Security, Detection and Response
- Product Security Engineer
- Information Security Architect
- Cyber Warfare Operations Officer
- Senior Cloud Security Engineer
- Technical Leader

# Executive Career Roles

- Executive Director, Program Delivery, Privacy & Security Program
- Vice President, Product Development, Detection and Incident Response
- Vice President, Global IT Infrastructure and Security
- Chief Enterprise Architect
- Chief Technology Officer (CTO)
- Chief Information Security Officer (CISO)
- Chief Information Officer (CIO)



# MICS 2023 EMPLOYERS



proofpoint.



LUMINATE



# Valued MICS Programs

- Coffee House - Guest Speakers, Day in the Life Series
- Berkeley Hacking Club – Weekly challenges and support
- MICS For Life
- Women in MICS
- Informal study groups
- Certification Study Groups

# Alumni Quotes and Comments

“MICS shines a light on you”

Privacy Manager, Facebook

“Why did I choose MICS? I wanted the strongest chops in cybersecurity!”

“When you finish MICS, you will have everything you need to know in the cyber security space and will be highly confident-know about risk, identity, cyber, governance, compliance and so much more.”

Executive Director, Privacy & Security, Kaiser Permanente

# Alumni Quotes and Comments

“During the program you will be knee deep and stressed but when you emerge, will understand the breath of programs risk, 3<sup>rd</sup> party, privacy, IOT, and regulatory-will quadruple your understanding across the spectrum”

“The mentoring program was hands down, the best thing I experienced”

“After I completed MICS, I felt that I had outgrown my job”

# Alumni Quotes and Comments

“Since completing the MICS program, I have been contacted several times a month by recruiters offering various software development positions.

It is gratifying to have options and job security.”

# Career Services



# Your Career Advising Team



**Rebecca Andersen**  
Senior Director of Student  
and Alumni Career  
Development



**Mary McHale**  
MICS Career Advisor



**Laurie Haskell-Woerner**  
MIDS Senior Career Advisor



**Amanda Cheung**  
MIDS Career Advisor



**Eva Mollett - MIMS**  
Assistant Director, Career Services



# Career Resources

- Targeted 1:1 advising
  - Individualized to background + goals
  - No “cookie cutter” advising

- Top topics:
  1. Job search
  2. Career change and exploration
  3. Resume and LinkedIn
  4. Interview Preparation
  5. Salary negotiation

[www.ischool.berkeley.edu/careers](http://www.ischool.berkeley.edu/careers)

## Career Advising

The Career Services staff is available for one-on-one career advising appointments. During your advising appointment we can focus on:

- **Career exploration:** examine various career paths and what might be a good fit for you
- **Getting a job:** review your resume and/or cover letter; discuss networking strategies and potential helpful contacts
- **Personal brand:** get feedback on your elevator pitch or online presence; look at your values & strengths to see what makes up your personal brand
- **Career basics:** learn skills and practice interviewing, negotiation, job search, etc.
- Whatever questions, thoughts, challenges, ideas you have!

Would you like us to review your resume, cover letter, or LinkedIn profile? [Just send us what you want us to review](#), and we will get back to you in about a week.

[More information](#)

### Make an Appointment

#### MIDS Students

[MAKE A MIDS ADVISING APPOINTMENT](#)

Log in with your bCal or Google account. Don't find any times that work for you? Email [mids\\_careerservices@ischool.berkeley.edu](mailto:mids_careerservices@ischool.berkeley.edu) to request an alternate time, and we will do our best to accommodate you.

#### MICS Students

[MAKE A MICS ADVISING APPOINTMENT](#)

Log in with your bCal or Google account. Don't find any times that work for you? Email [mics\\_careerservices@ischool.berkeley.edu](mailto:mics_careerservices@ischool.berkeley.edu) to request an alternate time, and we will do our best to accommodate you.

#### Cancellation Policy

In the rare case that we need to reschedule your appointment, we commit to providing you with at least 24 hours cancellation notice. We ask that you try and provide the same notice if you need to reschedule; thank you!

To make an appointment:

<https://www.ischool.berkeley.edu/careers/students/advising>



# Document Reviews

- Resume Reviews
- Cover Letter Reviews
- LinkedIn Reviews
- Resume Books

Submit docs for review at:

<https://www.ischool.berkeley.edu/careers/students/resumereview>



## Resume, LinkedIn, or Cover Letter Reviews

Would you like your resume, LinkedIn profile, or cover letter reviewed?

Name \*

Email \*

Degree program \*

- Select your degree program -

What would you like us to review?

**Resume (upload)**

Files must be less than 24 MB  
Allowed file types: pdf doc docx

Choose File No file chosen

UPLOAD

**Resume (link)**

If your resume is online, please paste in the complete URL

**Cover letter (upload)**

Files must be less than 24 MB  
Allowed file types: pdf doc docx

Choose File No file chosen

UPLOAD

**Cover letter (link)**

If your cover letter is online, please paste in the complete URL

**LinkedIn profile**

Please paste in the complete URL of your LinkedIn profile

*If you would like us to review and compare alternate versions of your resume or cover letter, we're happy to. Just make a note in the "Questions or comments" field at the bottom of this form, and then re-submit the form with additional version(s) of the document.*

**Position you are applying for**

(optional) Let us know if there are any specific positions or employers you are interested in.

**Questions or comments**

(optional) Let us know if you have any specific questions or concerns.

If at all possible, we try to get your review back to you within one week. Thank you!

SUBMIT

# 24/7 Career Resources

- Career Guides/links
- Webinars/events
- #cybersecurity-jobs
- #Jobs-and -internships
- UC Career Engagement
- CLTC

The screenshot shows the CLTC (Center for Learning Technology) website. The navigation bar includes links for ABOUT, PROGRAMS, NEWS, EVENTS, JOB BOARD, and PUBLICATIONS. The main heading is "Jobs, Internships, and Opportunities" with a "Submit a Job" button. Below this is a search form with fields for Job Type (Full-Time), City (Select a City), State (Select a State), Country (Select a Country), and Education Level (Select an Education Level). There are also checkboxes for "CLTC Jobs", "Non CLTC Jobs", and "All". A "Show 30 entries" dropdown and a search input field are also visible. Below the form is a table of job listings.

Organization	Position Description	Type	Location	Deadline
Xerox	Security Engineer, Threat Intelligence	Full-Time	Palo Alto, California	Used Filled
Cognizant	Enterprise Risk & Security Solutions Analyst	Full-Time	Toronto, New Jersey	Used Filled
Netflix	Security Operations Manager	Full-Time	Los Angeles, California	Used Filled

## Career Events for Students

[Log in to view selected recordings of past events.](#)

### Upcoming Events



### Career Services Overview

**Sep 24, 2019, 5:30 pm to 6:30 pm**

For MIDS & MICS students, Are you thinking of making a job or career change during or after your degree program? We can help!



### Resume Review Night

**Sep 25, 2019, 6:00 pm to 8:00 pm**

A fun evening of networking and resume-review speed-dating with employers and alumni.

## Career Search Resources

- [Job Search Websites](#)
- [Resumes & Cover Letters](#)
- [Networking](#)
- [Interviewing](#)
- [Negotiation](#)
- [Online Presence](#)
- [Entrepreneurship Resources](#)
- [Data Science Careers](#)
- [User Experience Careers](#)
- [Cybersecurity Careers](#)
- [Product Management Careers](#)
- [For International Students](#)
- [Miscellaneous](#)

# Information and Community

It's all on Slack!

- Announcements, Events, News
- Social network for I School's global community
- Profile Directory,
- Groups
- News feed
- Community

The screenshot shows a Slack channel interface for "UC Berkeley Scho...". The left sidebar lists various channels, with "# cyber-news" selected. The main content area displays a post from "Pascal" at 2:16 PM, sharing a link to a BleepingComputer article titled "Secret terrorist watchlist with 2 million records exposed online". The article text states: "A secret terrorist watchlist with 1.9 million records, including 'no-fly' records was exposed on the internet. The list was left accessible on an Elasticsearch cluster that had no password on it. (190 kB)". Below the text is a photo of the US Capitol building at night with a "CAUTION" sign. A second post from "Pascal" at 3:06 PM is partially visible, sharing a link to a Vice article titled "T-Mobile Investigating Claims of Massive Customer Data Breach". The right sidebar shows the profile of "Mary McHale", a Career Advisor at MICS, with options to set status, edit profile, and more.

To join: UC Berkeley School of Information | [ucbischool.slack.com](https://ucbischool.slack.com)

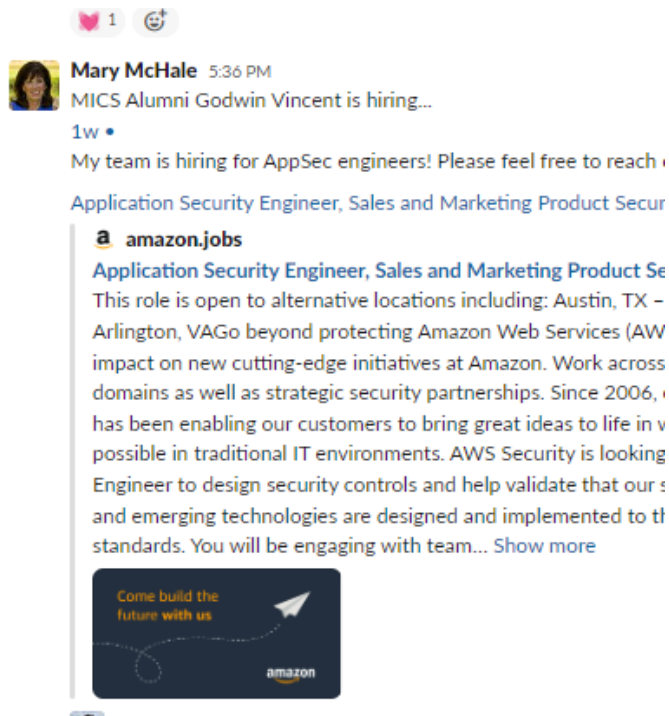
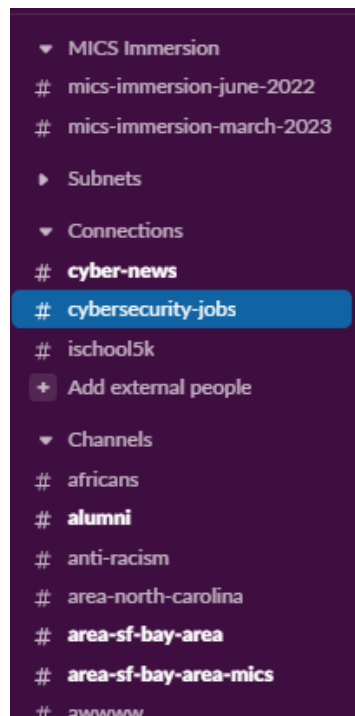
# Career Resources



Everyone is automatically enrolled in the [#announcements-global](#) channel; this channel is for team-wide communication and announcements and may be a place you see official announcements from the I School. We also suggest the following channels:

- [#introductions](#) — Say hi and introduce yourself to the I School Slack community.
- [#career-discussions](#) — General discussions about career paths and opportunities for I School students and alumni.
- [#jobs-and-internships](#) — Share jobs and internship opportunities relevant to the I School community
- [#area-\\*](#) — A variety of area channels representing different geographic regions around the world (see [#area-411](#) for a list.)
- [#noise](#) — In the spirit of our noise listserv, a place for non-work-related flimflam, hodge-podge or jibber-jabber
- [#alumni](#) — A channel for all alumni to connect

There are also channels related to specific programs at the I School, areas of interest, and more. [Check out our more comprehensive guide](#) or [browse the channel listings in Slack](#).



# UC Berkeley I School Community

- Alumni Network
  - Panel presentations
  - LinkedIn
  - Info. interviewing
- Employer Connections
  - Networking events
  - Guest speakers
  - Webinars
  - Immersion/conferences
- Fellow Students
  - Slack Channels e.g. *#careers, #cybersecurity-jobs #cyber-news, #humor*
  - MICS Coffee House, Saturdays
  - *#Berkeley-Hacking-Club*

**Berkeley**  
SCHOOL OF INFORMATION

**UC Berkeley School of Information**  
The School of Information creates knowledge and advances practice wherever people interact with information & technology  
Berkeley, ca · 2,136+ alumni · 7,760 followers

Eva & 29 other connections work here · 134 employees

Following Visit website More

Home My Employer About Posts Jobs **Alumni** Insights Videos

Search alumni by title, keyword or company

Where they live	Where they work	What they do
695 - United States	34 - University of California, Berkeley	205 - Engineering
419 - San Francisco Bay Area	23 - Google	170 - Information Technology
44 - Greater New York City Area	16 - UC Berkeley School of Information	125 - Business Development
32 - Greater Seattle Area	12 - Salesforce	76 - Research

Show more

**Heather McPherson** · 2nd  
Technology executive specializing in security ...  
'19 Cybersecurity  
12 shared connections  
[Connect](#)

**Alex Smolen** · 2nd  
Director Of Security at LaunchDarkly  
'11 Information  
1 shared connection  
[Connect](#)

**Vinicius Da Costa** · 2nd  
SVP Cyber Security Research & Innovation at Bank of ...  
'22 Cybersecurity  
3 shared connections  
[Connect](#)

**James Black** · 2nd  
Google Cloud Security  
'18 Information and Data Sci...  
10 shared connections  
[Connect](#)

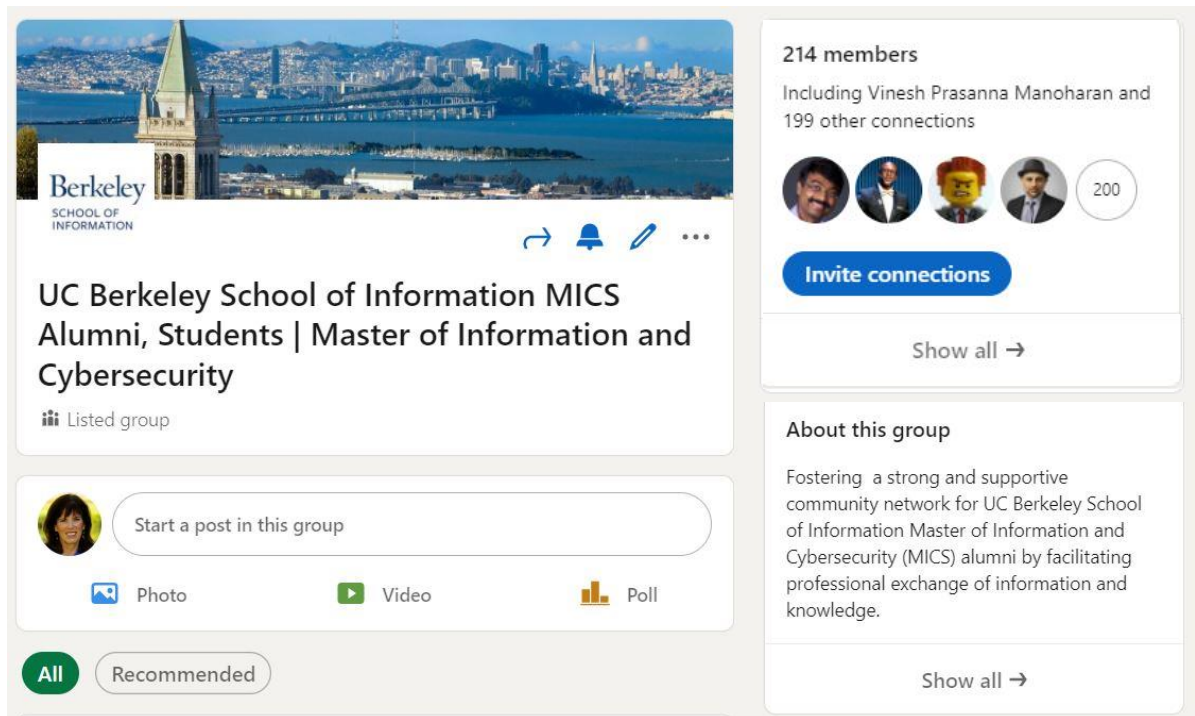
**RuthAnne Bevier** · 3rd  
Chief Information Security Officer, Caltech

**Juan Diego** · 3rd  
IT Security Specialist at MYDLP - A Data Loss...  
information and Cybersecu...

**Alberto Melgoza** · 3rd  
Data Scientist | Manager, Finance Data Security and...

**Kevin Y.** · 3rd  
Security Consulting Manager at Accenture  
'22 Data Science

# Join the MICS LinkedIn Page



The screenshot shows the LinkedIn group page for the UC Berkeley School of Information MICS Alumni, Students | Master of Information and Cybersecurity. The page features a header image of the Berkeley campus with the school's logo. The group has 214 members, including Vinesh Prasanna Manoharan and 199 other connections. A 'Start a post in this group' section is visible, with options for Photo, Video, and Poll. The 'About this group' section describes the group's purpose: fostering a strong and supportive community network for UC Berkeley School of Information Master of Information and Cybersecurity (MICS) alumni by facilitating professional exchange of information and knowledge. The page also includes navigation icons (share, notifications, edit, more) and a 'Listed group' indicator.

**Berkeley**  
SCHOOL OF  
INFORMATION

UC Berkeley School of Information MICS  
Alumni, Students | Master of Information and  
Cybersecurity

Listed group

214 members  
Including Vinesh Prasanna Manoharan and  
199 other connections

Invite connections

Show all →

About this group

Fostering a strong and supportive  
community network for UC Berkeley School  
of Information Master of Information and  
Cybersecurity (MICS) alumni by facilitating  
professional exchange of information and  
knowledge.

Show all →

Start a post in this group

Photo Video Poll

All Recommended

<https://www.linkedin.com/groups/13944455/>



# Job Search

Advising, resume prep, events, and more!



# Job Search Process

- **Research & identify target jobs/companies/ industries**
  - What are your dream companies/roles? Research salaries
- **Update resume and LinkedIn profile**
  - What's your brand?
- **Create online portfolio/website/blog**
  - Employers ARE looking!
- **Prepare for interviews**
  - Behavioral & technical
- **Network, network, network**
  - | School & greater professional communities
- **Apply and prepare for interviews**
  - Get referrals from your network whenever possible
- **Better Software Starts With Security**
  - Research salaries and compensation packages

How long does the  
job search process  
take?

# Jobscan



[www.ischool.berkeley.edu/careers/students/jobscan](http://www.ischool.berkeley.edu/careers/students/jobscan)

## Request a Jobscan Account

Jobscan is a resume software tool that analyzes your resume for how it would perform in an ATS. Submit this form to request a premium account with Jobscan.

With your premium Jobscan account, you will upload your resume and a job description to receive a report with information such as: match rate of your resume against the job description, a prediction of how your resume would be parsed in the ATS, and a side-by-side keyword comparison of your resume and the job description, ordered by frequency. Jobscan also has the ability to review cover letters and your LinkedIn profile.

### About the match rate / score you will see displayed by Jobscan

This score displays the predicted match of your resume against a job description and it is very difficult/impossible to get high scores.

- If you receive a score **under 40%**, we strongly recommend that you consider revising your resume.
- If you receive a score **above 60%**, your resume is looking pretty good! You could make some revisions, but you could also go ahead and apply.

**Don't forget!** Jobscan is simply a useful source of information and you can pay attention to the findings and at the same time realize that it is not perfect. We suggest that you use Jobscan to see how your resume is performing, but you do not have to use it every time you apply for a job.

## Request Premium Jobscan Account

Name \*

Rebecca Andersen



# Handshake



WELCOME TO HANDSHAKE, the Career Center's new fast and powerful recruiting platform for UC Berkeley students and alumni. Handshake uses cutting edge technology to help you more easily connect with employers and source jobs and internships, event information, and On-Campus Recruiting opportunities.

Employers can use Handshake as a recruitment tool, to identify qualified candidates for open positions and manage on-campus recruitment activities.

## Log in to Handshake

### **Undergrad and Graduate Students**

Log in to Handshake using your CalNet Log In. For help with questions, visit our [FAQ's](#) or Handshake's [support for students](#). Note: If you choose to use Handshake you are required to abide by the Career Center [User Agreement](#).



# Networking

## Alumni Network

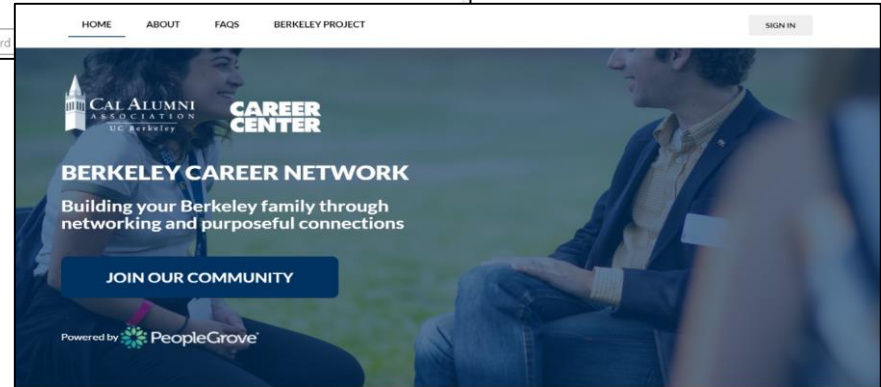
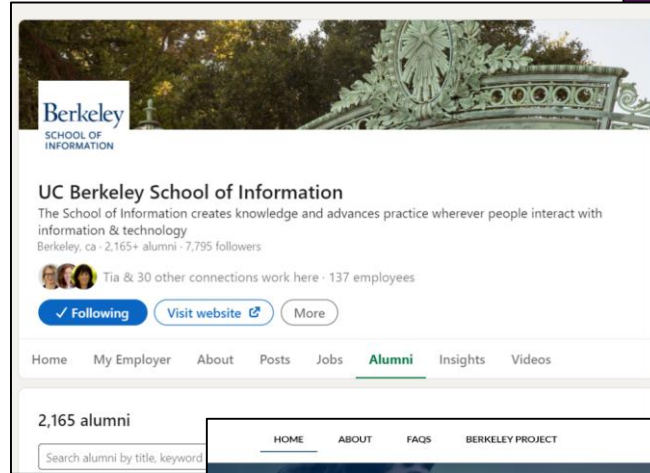
- Panel Discussions
- Info. Interviewing
- LinkedIn
- Slack
- Berkeley Career Network

## Employer Connections

- Networking Events
- Guest Speakers

## Fellow Students

- Slack
- Classes



# Maximize Your Experience

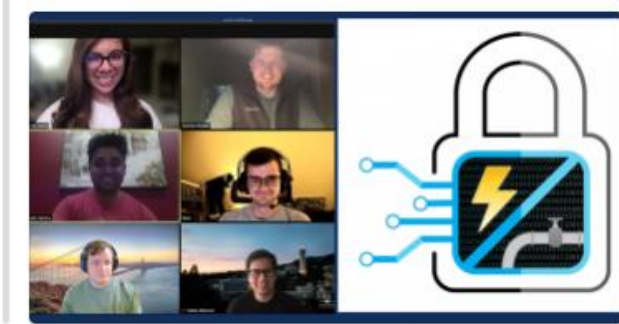


**MICS  
IMMERSION**





# Engage, Connect, Have fun



CyberForce Competition



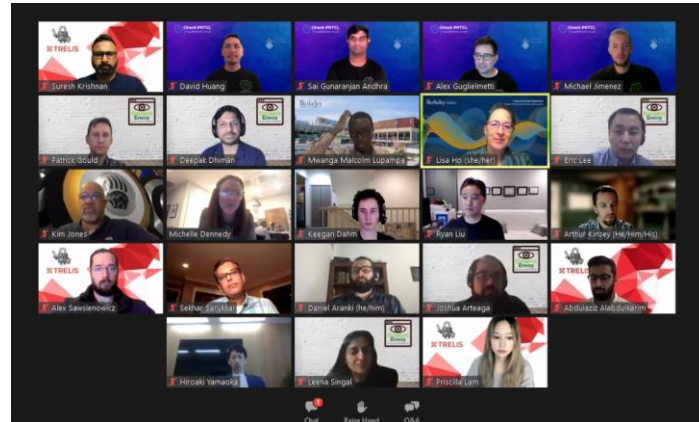
DefCon



Big Game



Top Golf



Capstone

# Upcoming Career Webinars

## **LinkedIn Profile Tips and Tricks**

Wednesday, Sept.25, 2024

12 noon-1 pm PDT

## **Tips for Building the Experienced Leader Resume!**

Thursday, Oct 3, 2024

12 noon-1 pm PDT



## **Revamp Your Resume**

Thursday, Oct 15, 2024

12 noon-1 pm PDT



## **Transitioning Military: Lessons from the Field**

Wednesday, November 13, 2024

12 noon-1 pm PST

<https://www.ischool.berkeley.edu/careers/students/events>



# You're Invited

## #Coffee House

Saturdays  
9 AM Pacific



## #Berkeley-Hacking-Club

Saturdays  
10 AM Pacific

## Career Events for Students & Alumni

[Log in to view selected recordings of past events.](#)

### Upcoming events



### [MICS Career Services Overview](#)

**Wednesday, September 18, 2024, 12:00 pm - 1:00 pm PDT**

Are you thinking of making a job or career change? We can help!



### [LinkedIn Tips & Tricks](#)

**Wednesday, September 25, 2024, 12:00 pm - 1:00 pm PDT**

Valuable tips and little-known tricks to take your LinkedIn profile from good to great.



### [Master's & Ph.D. Career Fair](#)

**Wednesday, October 2, 2024, 12:00 pm - 4:00 pm**

Sponsored by the UC Berkeley Career Center



### [Tips for Building an Experienced and Senior Leader Resume](#)

**Thursday, October 3, 2024, 12:00 pm - 1:00 pm PDT**

Learn how to write an executive-style resume that effectively communicates your level of experience and your leadership and business value to employers.

# Jump Start Your Career To do's:

- Schedule a [career advising appointment](#)
- Request a [resume/LinkedIn profile review](#)
- Request a [JobScan account](#)
- Join/reactivate your [Handshake account](#)
- Connect with MICS and I School Community on LinkedIn
- Stay active and engaged, study groups, meet ups, Slack!

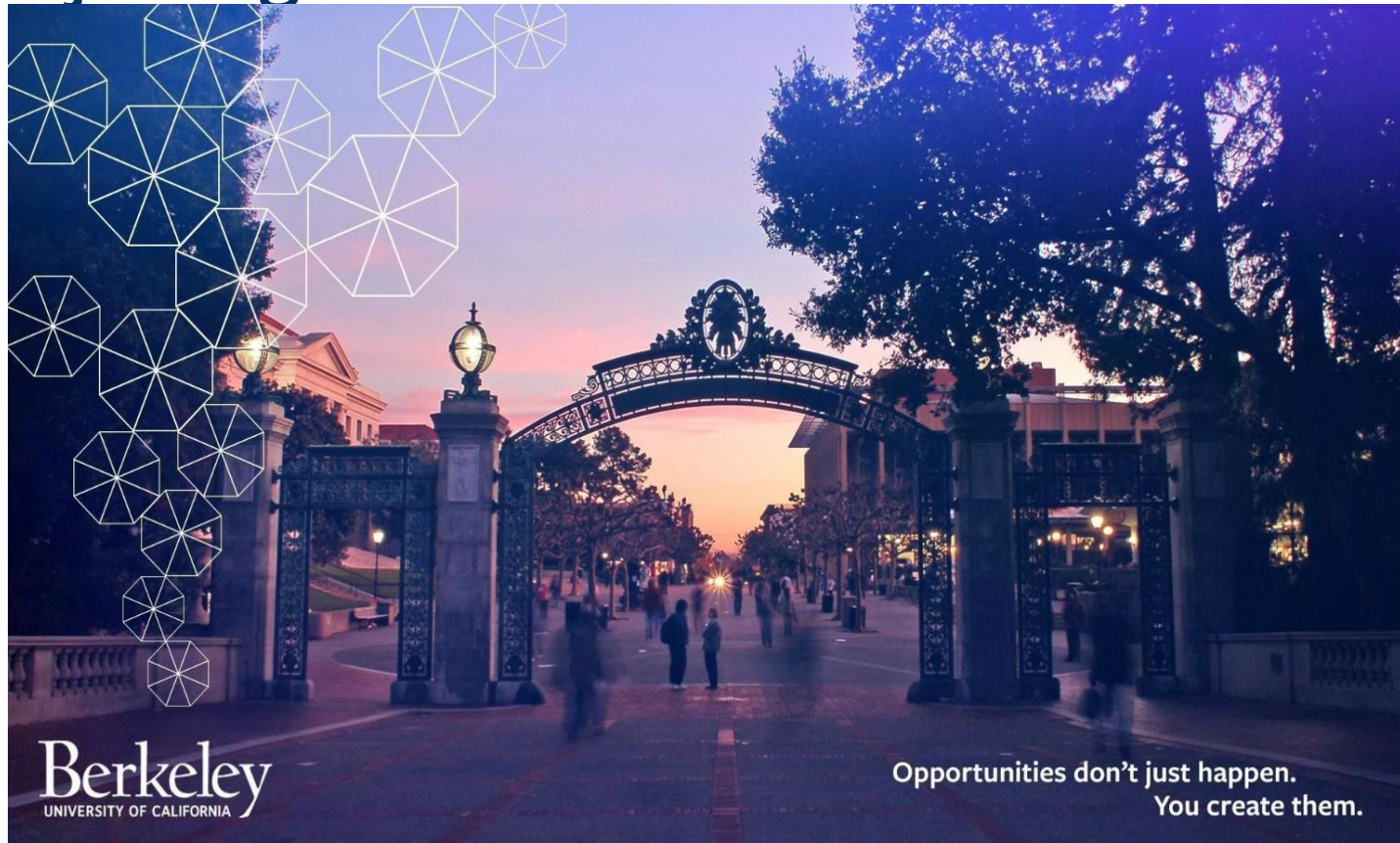


# Tell us what you think!

MICS Post Webinar Survey



# Thanks for joining!



**Berkeley**  
UNIVERSITY OF CALIFORNIA

Opportunities don't just happen.  
You create them.