

Women in CyberSecurity (WiCyS)
Global Nonprofit Organization

www.wicys.org

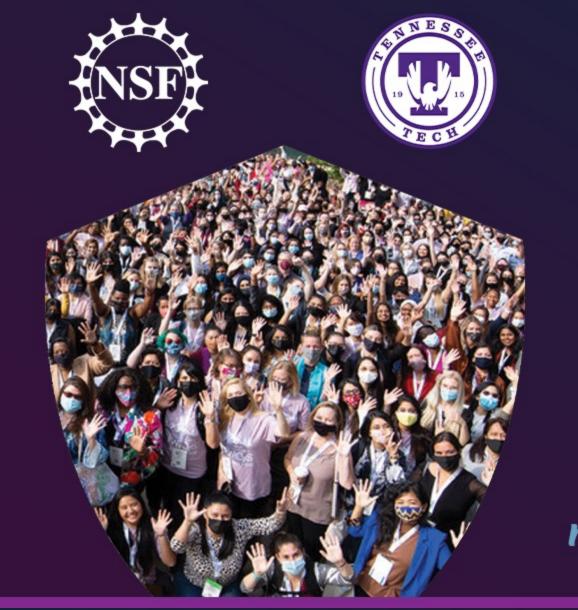
Q How to pronounce WiCyS

Sounds like

we-sis



Meaning: We Cyber Sisters





WiCyS is a 501c3 nonprofit organization with global reach dedicated to bringing together women in cybersecurity from academia, research and industry to share knowledge, experience, networking, and mentoring

# WiCyS Board Members



ALLISON MILLER UnitedHealth Group/Optum



DR.AMBAREEN SIRAJ Founder



DR. COSTIS TOREGAS Treasurer



DR. DAWN M. BEYER Lockheed Martin Space



DIANA KELLEY SecurityCurve



DR. GREG SHANNON Idaho National Laboratory and CyManll



DR. JANELL STRAACH Chair of The Board



MARIAN MERRITT
NICE and US
Departent of Commerce



NOUREEN NJOROGE Nike, INC.



PRAJAKTA JAGDALE
Palo Alto Networks



SARAH MORALES Google



VALERIE JANE CHUA JPMorgan Chase & Co.

# WiCyS Staff



Executive Director



COLLEEN HUBER
Marketing
Coordinator



JACLYN JUSTICE Professional Affiliate Manager



JESSICA ROBINSON Chief Information Security Officer



LAURA VILLALOBOS

Community

Manager



MADDIE WITT Social Media Specialist & Content Creator



MORGAN GARLAND Operations Manager



MYRIAM SAINT JEAN Financial Manager



PETER BALDWIN Chief Financial Officer



QUIANA OATES Program Manager

# 2014 vs. 2023

2014

2023

3.4 Million

11%

Women in cybersecurity

\*Frost and Sullivan, 2013

1 Million

Unfilled Cybersecurity Roles

\*Cybersecurity Ventures

24%

Women in cybersecurity

\*(ISC)2, 2019

Unfilled Cybersecurity Roles

\*(ISC)2

## GENDER BALANCE CHALLENGES

Lack of Awareness

Stereotypical Notions

Lack of Resources

Lack of Visibility of Role Models

Lack of Pay Parity

> Inadequate Professional Development Opportunities

Lack of Access to Mentors Lack of National/ Regional/Local Community

> Lack of Social Support

> > Inadequate Advancement Opportunities



speakers bureau, veterans

assistance program,

and more.

interested of

WiCyS members.

NSF grant cycle.



attendees in 2 years.



## 2014 | Nashville | 350+



2015 | Atlanta | 550+



2016 | Dallas | 800+



2017 | Tucson | 900+



2018 | Chicago | 1,100+



2019 | Pittsburgh | 1,300+



## 2021 | Denver | 1,315



## 2022 | Cleveland | 1,700



## 2023 | Denver | 2,100



## #WiCyS2022

**1,500+** Conference Registrants

200+ Recruiters

Scholarships

**350+** Volunteers

Travel Stipends

**200+** Recruiters

Sponsors

Military

CPE Hours

Faculty Grants

Reseach Posters

Workshops

17 Awards

Technical Presentations

Countries Represented

Lightning Talks

Employer Socials

Featured Speakers

Information Sessions

Leadership Events

Birds of a Feather

Keynotes

1 Capture-the-Flag (CTF)

#WiCyS2022 hashtag reached 16 MILLION!

### #WiCyS2023

**2,100** Conference Registrants

**1,004** Scholarships

Travel Stipends

Sponsors

Speakers/Presenters

Faculty Grants

18 Awards

CPE/CEU Hours

19 Workshops

Lightning Talks

14 Meetups/Information Sessions

Birds of a Feather

Keynotes

1 AllyShip Symposium

Volunteers

Recruiters

Military

Research Poster Presenters

19 Countries Represented

Unique Sessions

Research Posters

Technical Presentations

Featured Speakers

Socials

Panels

Special Invite Meals

CTF

#### **THANK YOU TO OUR 2023**

## Conference Sponsors

**VIP Sponsors** 

**Bloomberg** 

F#RTINET.





















Carnegie Mellon University

Software Engineering Institute









#### **Diamond Sponsors**







RICE UNIVERSITY











protiviti







Laboratories















#### **Platinum Sponsors**









Gr Georgia Tech













**D¢LL**Technologies





























#### **Gold Sponsors**

(ISC)<sup>2</sup>







**X**cyberbit









































PURDUE UNIVERSITY.

JPMORGAN CHASE & CO.





RIDER



#### **Silver Sponsors**











CEU and CPE credits available by: CompTia, GIAC and (ISC)2

"At the WiCyS Conference, we demonstrate DIVERSITY not by pointing out the problem, but by SHOWCASING a spectrum of talent from a diverse group of professionals."

- Dr. Ambareen Siraj, WiCyS founder



## How it started



2014

# How it's going



2023



## WiCyS MISSION:

Help build a strong gender-diverse cybersecurity workforce by facilitating...

RECRUITMENT
RETENTION
ADVANCEMENT for women in the field













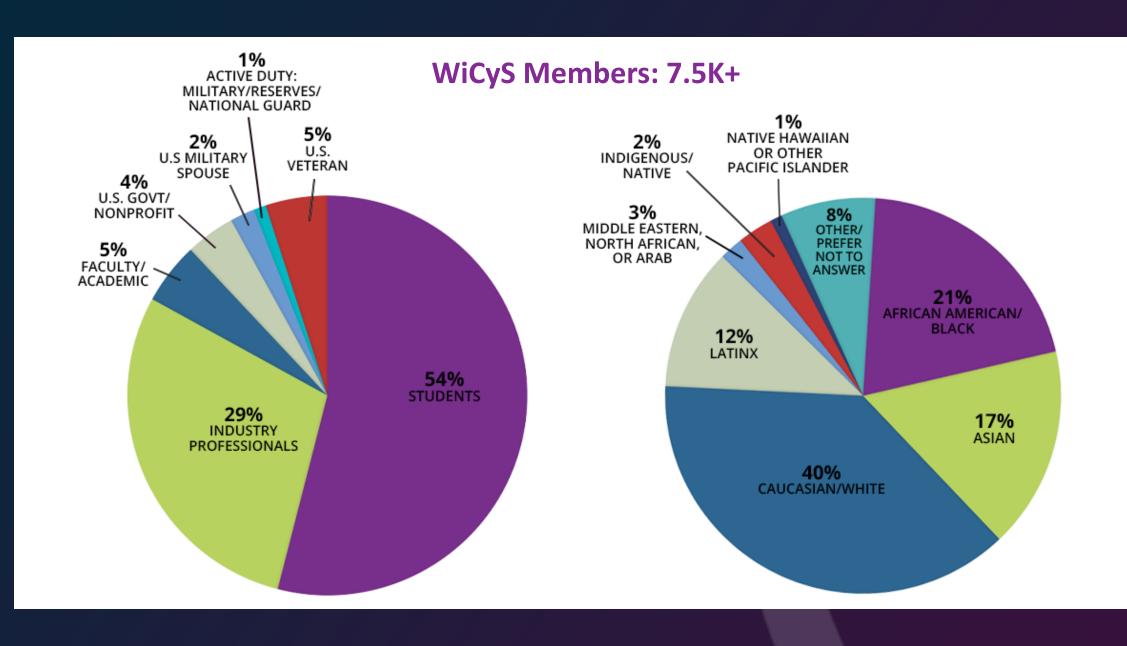




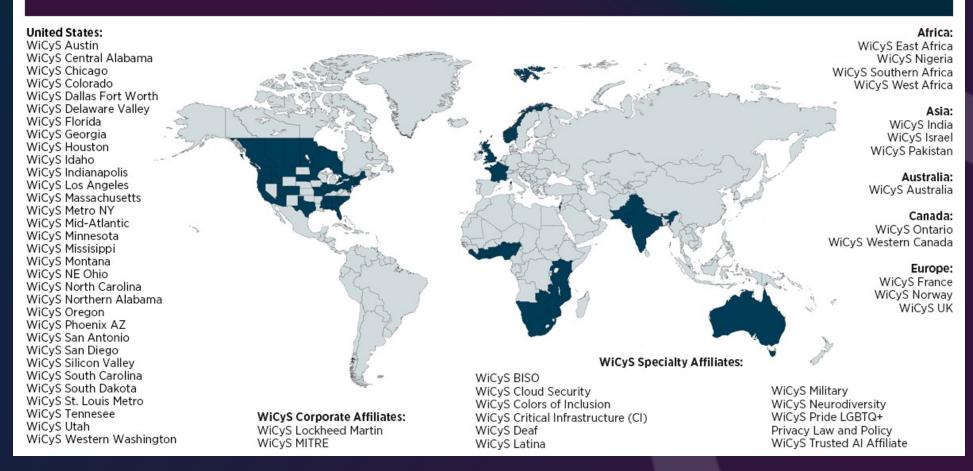
## WiCyS Membership Map



United States, Albania, Antigua and Barbuda, Argentina, Australia, Austria, Bahamas, Belgium, Brazil, Cameroon, Canada, Chile, Colombia, Costa Rica, Denmark, Djibouti, Egypt, eSwatini, Ethiopia, Finland, France, Georgia, Germany, Ghana, Hong Kong, Hungary, India, Ireland, Israel, Italy, Japan, Kazakhstan, Kenya, Kosovo, Kuwait, Kyrgyzstan, Libya, Luxembourg, Malaysia, Mauritius, Mexico, Mongolia, Morocco, Netherlands, New Zealand, Nigeria, Norfolk Island, Norway, Oman, Pakistan, Panama, Papua New Guinea, Philippines, Poland, Portugal, Puerto Rico, Qatar, Romania, Rwanda, Saudi Arabia, Serbia, Singapore, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Switzerland, Trinidad and Tobago, Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, Uruguay, Uzbekistan, Virgin Islands, U.S.



# WiCyS WiCyS Professional Affiliates



https://www.wicys.org/initiatives/affiliate-and-industry/

## WiCyS Student Chapters

#### United States:

Alabama Arizona California Colorado Connecticut Delaware Florida Georgia Illinois Indiana lowa Kentucky Louisiana Maine Maryland

Michigan

Minnesota

Mississippi Missouri

Nevada

Massachusetts

16 Countries: Africa, Australia, Azerbaijan, Cameroon, Canada, Costa Rica, Ghana -West Africa, India, Korea, Nigeria, Rwanda, Scotland, South Korea, Tokyo, U.K., and U.S. New Mexico New Jersey New York North Carolina North Dakota Ohio Oklahoma Pennsylvania Puerto Rico Rhode Island South Carolina Tennessee Texas Utah Vermont Virginia Washington Washington D.C. West Virginia Wyoming



https://www.wicys.org/initiatives/student-chapters/

## WICYS INITIATIVES



## WiCyS Security Training Scholarship

One journey started...
One year invested...
One career elevated...
CYBERSECURITY







Craig Newmark
Philanthropies



### '20 - '21 WICYS SECURITY TRAINING SCHOLARSHIP

### **ALL RECIPIENTS EMPLOYED WITHIN ONE YEAR**



C. Campbell SENIOR SYSTEMS ADMINISTRATOR



K. Cotten
INFORMATION
TECHNOLOGY FELLOW



A. Singh
APPLICATION
SECURITY ENGINEER



L. La SECURITY ANALYST



H. Deepa ASSOCIATE ANALYST



S. Ramamurthy
INFORMATION
SECURITY INTERN



A. Desperoux ANALYST



H. Pillay SENIOR PROGRAMMER ANALYST



L. Gallegos NETWORK ENGINEER



L. Beattie SOC II ANALYST



A. Reyes SECURITY ENGINEER INTERN



C. Morency CLOUD SECURITY ANALYST



M. Bigger CLOUD SECURITY ENGINEER



J. Otieno LEVEL I SOC ANALYST



L. Machado THREAT INTELLIGENCE INTERN









### WiCyS 2020-2021 SECURITY TRAINING SCHOLARSHIP COHORT



Sponsored By: Google



#### 2021-2022 WICYS SECURITY TRAINING SCHOLARSHIP RECIPIENTS



Sakshi Aggarwal



Jay Alexander



Jennifer Amato Bass



Amanda Basso de Oliveira



Tiffany Blacksher



Jessica Brodeur



Lan Che



Gabriel Chen



Caroline Crooks



Jodi Galiher



Klaudia Gebala



Kathleen Gibson



Alejandra Giraldo



Saloni Gupta



Siena Hanna



Sherawn Jackson



Annabelle Klosterman



Jeng Kong



Benita Landrey



Danyelle Loffredo



Palak Mittal



Lori Murphy



Esther Nambuya



Nghi Nguyen



Cesarina Paula



Anna Rawles



Constanze Roedig



Oorja Rungta



Gopika S



Dominique Serna



Anisha Srivastava



Uliana Steshenko



Anjana Suresh



Jnana Tekumudi



Bhawini Tripathi



Catharine Vetter



Jennifer White



Merina Witz



Mehnas Yasmin



Liza Yorke











### WiCyS 2021-2022 SECURITY TRAINING SCHOLARSHIP COHORT





Tier 1: 881 | Tier 2: 250 | Tier 3: 100

Tier 4 and 5 (advanced certifications and career placement): 66

https://www.wicys.org/benefits/security-training-scholarship/



### 2022-2023 SECURITY TRAINING SCHOLARSHIP COHORT

### This is how they started



A. Chevez Scholar



A. Ta Scholar



**B. Davis** Trust and Saftey Associate



C. Grimes Intern



C. Porter IT Coordinator



E. Schlieff Reverse Engineer



**G. Liu** ICT Admin Officer



G. Nzeka Scholar



H. Rapetti Cyber Security Analyst



**J. Abuahmad** Technical Writer



J. Billingsley Senior IT Reasearcher/ Project Manager



**J. Bond** Jr. System Administrator



J. Cone Student



J. Pierce Scholar



J. Otieno IT officer



J. Rehlander Consulant



J. Spencer Registered Nurse



J. Sprowl



**J. Suarez** Associate Transit Management Analyst



**J. Chen** Jr. System Administrator



J. Raczkiewicz Scholar



J. Tong Scholar



**K. Drozdowska** Head of Organic Growth



**K. Givoni** Scholar



K. McLead Scholar



K. Quinn Cyber Security Education Content Writer



L. Dierking Fraud Investigator



L. Gutierrez Mentee



L. Helgeson Transportation Security Officer



L. Hinz IT Support Computing Analyst



L. Kirkham Student



L. Pereira Scholar



L. Schuering Cyber Security Apprentice



**Bloomberg** 

craig newmark philanthropies







### 2022-2023 SECURITY TRAINING SCHOLARSHIP COHORT

### This is how they started



L. Smith CSE



M. Gasbarro Associate



M. Friedman Associate



M. Mallareddy Scholar



M. Meij Scholar



N. Haim Math Education Specialist Se



N. Kumar Application Security Course Assistant



N. Mathieu IT Technician



N. Merklein Field Technician



L. Ebmeier Data Entry Specialist



N. Nurgul IRM Analyst



N. Rana IT Specialist



P. Smarduch Scholar



P. Vargas Scholar



R. Earle Director of Consulting Services



R. Echevarria IT Specialist



R. Emad Intern



R. Fatayo Cybersecurity Engineer



S. Henry Army Reserve Soldier/IT Support Specialist



S. Kela Technology Product Manager



S. Le

**S. Matt** Senior Editor



S. Meyers Teaching Assistant



**S. Mireku** Founder& CEO of Soulcast Media



**S. Modi** Google WE Scholar



S. Fornander Legal Transcriptionist



**S. Ortega** Security Analyst



S. Ramsay Scholar



S. Rivas Intern



S. Selvarai

Student

\* \*



**S. Xiao** Cyber Security Intern



Y. Kim Barista



Z. Olayiwola Scholar



**Bloomberg** 

craig newmark philanthropies







#### **WiCyS Security Training Scholarship**

In partnership with the SANS Institute, WiCyS is proud to offer the Security Training Scholarship made possible by Google, Bloomberg, and Meta.





1684 Applicants

**CERTIFICATIONS** 

▶ Hacker Tools, Techaniques.

Cloud Security EssentialsNetwork Penetration Testing and

have made the career switch if I

the courses provided me the

in cybersecurity."

Analyst at Rapid 7

hadn't taken SANS courses. Takina

knowledge necessary to land a job

Hanan Saleh, Detection and Response



502 Cyberstart Scholars



students selected for advanced training scholarships

Students can earn up to 3 GIAC certifications



100%

Students in the advanced pathways have a 100% pass rate on GIAC Certification exams

100%

of program graduates are employed within 6 months of completion

Job titles our graduates have gone on to get:



Network Engineer, SOC Analyst, Senior Programmer Analyst, Security Analyst, Senior Systems Administrator, Information Security Intern, Cloud Security Engineer, Security Engineer Intern, Associate Analyst, Threat Intelligence Intern

➤ Web App Penetration Testing and Ethical Hacking

➤ Windows Forensic Analysis, Cloud Security and DevOps Automation

"I can say with absolute confidence that I couldn't "The SANS Immersion Academy did just as the title states. It immersed me in a new world of technology while simultaneously providing all the support and tools I needed to succeed and excel during this process."

Christine Morency, Cloud Security Analyst at Booz Allen Hamilton and WiCyS Security Training Scholarship Program Graduate Companies that have hired our graduates:



Deloitte.

Booz | Allen | Hamilton



amazon





Learn more at WiCyS.org/benefits/security-training-scholarship

Website Views: 46K+

**Applicants: 2.4K+** 

Final Recipients of Advanced Certifications: 120





### WICYS VETERAN APPRENTICESHIP PROGRAM

(Completed Training and Enrolled in WiCyS Mentoring)



A. Renix Army Veteran



A. Stephens Marine Veteran



H. Williams Navy Spouse



I. King Navy Spouse



J. Brooks Army Veteran



J. Graham Army Veteran



J. Rivers Army Veteran



Army Veteran



K. Manzon Army Veteran



L. Sturgeon Army Veteran



Army Veteran



M. Conahan Air National Guard VeteranArmy Reserves Veteran



M. L. Ludwa



M. Rodriguez Navy Veteran



N. Knight Army Veteran



R. Pascua Army Veteran



T. Simpson Navy Veteran

#### **VETERAN MENTORS**



Sarah Luiz Air Force



Stephanie Harris Navv



Molly Handy Navv



Julie Davila Army



Elizabeth **Tatulis** Navy



Kayla **Ventresca** Army



**Patrice** Siravo Air Force



Rebecca Newman Air Force



Felicia **Jackson** Air Force



Latoyia Overton Air Force

**Employer Partners:** 



**(iii)** SentinelOne **Bloomberg** 



Mentor/Mentee Infrastructure Sponsored by:



# WiCyS MENTORSHIP PROGRAM

**Enrollment Closes March 22** 



Total mentees: 1,368, Total mentors: 344

**Next Enrollment: Fall 2023** 

https://www.wicys.org/initiatives/mentorship/



228 Applicants, 100 Participants
<a href="https://www.wicys.org/benefits/fortinet-nse4-certification-summer-camp/">https://www.wicys.org/benefits/fortinet-nse4-certification-summer-camp/</a>

# TRANSITIONING TO CYBERSECURITY: THE PATHWAY TO TECHNICAL CERTIFICATION

**COMING FALL 2023** 







Website Views: 3.1K+

News Release Reach: 77M potential audience | 94 total pickup 812 total engagement actions



**Tier 1:** 723 Registrants

Tier 2: 37 Participants

Tier 3: 18 Invited



MADE POSSIBLE BY TARGET





Registration Closes June 14



**Total Applications: 704** 

**Final Participants: 265** 

https://www.wicys.org/benefits/isc2-certified-incybersecurity-certification/



https://www.wicys.org/benefits/isc2-certified-incybersecurity-certification/





# SPEAKER Spotlight Program

Launching June 2023





### The Cyber Effect

Mary Aiken

#### SATURDAY, JUNE 17 AT 12 PM CT

ZOOM REGISTRATION IS REQUIRED

#### Register here:

https://us06web.zoom.us/meeting/register/tZYpcOGgrz4tE9Il 3EY1OP7uM0KftYVmFQw9 How to be an Anti-Racist by Ibram X. Kendi

White Fragility by Robin DiAngelo

How to be an Ally

Inclusive Language

Trauma-Informed Workplaces



Unconscious bias, Microaggressions & how empathy plays an important role

Anti-Asian Violence, our response and roles of Leadership

Creating Inclusive Environments as it Relates to the Transgender Community

IN Security: Why a Failure to Attract and Retain Women in Cybersecurity is Making Us All Less Safe.

Power of Language and Microaggressions in the Workplace

> Dare to Lead by Brene Brown

Addressing Racial Tensions

Supporting Neurodivergent Individuals



# Leadership Series

Thursday, July 20 at 1pm CT

Supporting Neurodivergent Individuals through Hiring and in the Workplace

THE EVENT WILL BE HELD VIA ZOOM. REGISTRATION IS REQUIRED.



https://www.wicys.org/resources/nice-workforce-framework-wicys-video-album/



#### Funding available throughout the year

Learn more: <a href="https://www.wicys.org/initiatives/wicys-global-student-chapter-initiative-made-possible-by-microsoft-philanthropies/">https://www.wicys.org/initiatives/wicys-global-student-chapter-initiative-made-possible-by-microsoft-philanthropies/</a>

#### **MEMBERS:**

1,200 Resumes Uploaded

**Search Job Postings** 

**Get Actively Recruited** 

#### STRATEGIC PARTNERS:

**65 Partner Booths** 

**Jobs Posted** 

**Search Resume Database** 



**2022: 11K**Booth Visits

Virtual Career Fair: August 16, 2023 <a href="https://careerfair.wicys.org/">https://careerfair.wicys.org/</a>

#### Special Thanks

#### **WICYS STRATEGIC PARTNERS**

#### Tier 1







Bloomberg















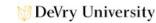




#### Tier 2









JPMORGAN CHASE & CO.



**M**SKESSON









yubico

#### Tier 3











































































#### WICYS FOUNDING PARTNERS









## WiCyS Instagram Takeovers





https://www.instagram.com/wicysorg/

#### **INCLUSIVE LANGUAGE**

**Language** is used every day without truly understanding the whole meaning of the phrases or the origins of our words. In recent years, there has been an increased awareness in the United States to understand better the phrases we use and how they have impacted marginalized communities today. Various industries are introducing **inclusive language** for their cybersecurity teams to transition to and incorporate in their roles.

This *inclusive language* resource is an ongoing document drafted by the WiCyS Racial Equity Committee for others to share with their cybersecurity teams. This collective effort will help shape the industry into one we can all be proud of as we move forward together.

#### **COMMONLY USED:**

Master

Slave

Blacklist Whitelist

White board

Whitebox testing

Blackbox testing Master Git branch

Scrum Master

Sanity-check

Crazy ex. "crazy outliers in the data"

Master Black Belt (Six Sigma)

(You) guys

Man Hours ex. "how many man hours..."

Man a booth, man a table, manpower

Chairman Grandfathered Blackhat hacker

Whitehat hacker Native feature

Man-in-the-middle

DMZ Blackhole Blackout

Application whitelisting

Gray hat White-hat Handicapped

#### TOGETHER, WE THRIVE!

This document provided through contributions of the WiCyS Racial Equity Committee

#### **CHANGE TO:**

Lead, Primary, Original Follow, Secondary, Replica

Deny list, Blocklist

Allow list, Approved list

Collaboration board, Ideation, Brainstorm

Open Testing Closed Testing

Main, Production, Release, Live branch

Scrum Lead/Manager

Check for completeness and clarity

Baffling ex. "baffling outliers in the data"

Six Sigma Expert

You all, team, folks

Hours ex. "how many hours..."

Staff a booth, staff a table, workforce

Chair of the board Exempt, rollover Unethical hacker Ethical hacker

Built-in On-path

Perimeter network

Process vacuum or sinkhole Power failure or power loss

Application control Semi-authorized

Authorized or legal or ethical

Impeded

www.wicvs.org



#### **INCLUSIVE MENTORING**

Inclusive mentors are necessary to cultivate the space of respect and growth for women in cybersecurity to advance in their careers. Within the WiCyS Mentoring Cohort program, inclusive mentors selflessly commit their time, attention and focus on their mentee's success. WiCyS provides a curriculum that focuses on interpersonal and intrapersonal skills critical to gain influence in the workforce. The cohort and inclusive mentors provide the heart and soul.

#### SEVEN STEPS FOR INCLUSIVE MENTORING

- Create a safe space
- Don't impose your views
- Listen and facilitate
- Trust before everything else
- Engage everyone
- Be authentic and vulnerable
- CELEBRATE!!!!
- Create a safe space: Inclusive Mentors enter the space of the cohort with an understanding that everyone is always working and growing personally and professionally (including themselves). They ensure that non-judgment, equity and allyship are exhibited throughout their sessions and lay the foundational groundwork of mutual respect.
- **Don't impose your views:** Inclusive Mentors take the time to relate to the mentee and find commonalities in interests and perspectives. They respect their mentees' points of view and celebrate the uniqueness of any differences.
- Listen and facilitate: Inclusive Mentors are facilitators of the mentor/mentee cohort conversation. They listen, pay attention and take notes while honoring everyone's unique experiences. Through genuine interest and curiosity, inclusive mentors are the conduit to the cohort and help establish long-term sustainable relationships amongst the cohort participants. The goal is not to advise but to facilitate productive conversations.
- **Trust before everything else:** Inclusive Mentors bring out the best in their mentees by establishing trust. Trust-building takes time but every step counts along the way. Inclusive mentors use preferred pronouns, pronounce names correctly and identify if someone would like to be addressed otherwise. They devote their time and attention to building trust and never deviating.
- **Engage everyone:** Inclusive Mentors pay attention and are equitable to all mentees within the cohort. They listen, allow equal speaking time, and minimize their own speaking time. Inclusive mentors never cut anyone off and encourage others to share their experiences in the conversation.
- Be authentic and vulnerable: Inclusive Mentors are authentic about their professional growth by sharing the grit and the glory (when appropriate). Inclusive mentors show up with their guard down; they leave judgment at the door and open up to vulnerability themselves. They acknowledge the power of navigating through the sometimes confusing cybersecurity career ecosystem and honor the journey along the way.
- **CELEBRATE:** Inclusive Mentors celebrate their mentee's personal and professional wins and recognize accomplishments along the way. They are their mentee's #1 champions and through these celebratory actions, encourage all mentees to champion one another throughout the program and in ongoing friendships.

#### TOGETHER, WE THRIVE!

This document provided through contributions of the WiCyS Racial Equity Committee and WiCyS Mentor/Mentee Committee

www.wicvs.org

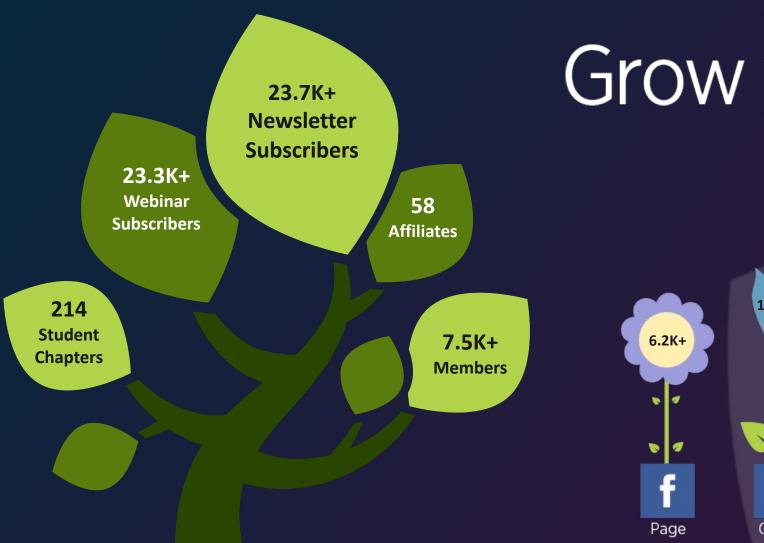


# The DIVERSITY of Thought

## Let's climb this mountain together...



and as one woman rises, let's give the grace and space for others to rise as well



# Grow with us.



# LYNN DOHM WiCyS Executive Director

lynn@wicys.org
TWITTER: @lynn\_dohm

wicys.org