

National Cyber Gauntlet Challenge



Charlton Trezevant



Leadership Experience

- Former President and Vice President, Hack@UCF
- Cybersecurity evangelist and guerilla lecturer
- Volunteer workshop lead and mentor, KnightHacks
- Founder and President, NCGC

Competition Experience

- National Collegiate Penetration Testing Competition
- National Collegiate Cyber Defense Competition
- Southeastern Regional CCDC
- Duel Factor CTF
- Lockdown @ University of Buffalo
- Symantec Higher Ed Cyber Challenge CTF

Natalie Larkin



Leadership Experience

- Security Staff at DEF CON
- Founder and Executive Director of HackState
- Competition Assistant and Award Presenter at CyberPatriot
- Captain of CyberPatriot teams
- Vice President and Project Lead, NCGC

Competition Experience

- Collegiate Penetration Testing Competition
- Trace Labs Missing Persons Capture the Flag
- Palo Alto Networks Capture the Flag
- PayPal Capture the Flag
- Hack Education Capture the Flag
- Wicked6 Cyber Games

What Are Cyber Competitions?



The Current Competition Landscape

Most of the **leading cyber competitions** focus on a **specific, limited subset** of information security skills.

Competitors face **restrictive rules** that **limit their creativity** and distort the applicability of in-game experiences to real-world scenarios.

Engagement with the research space generally occurs **after the fact**, rather than as a first-class consideration in the design phase.

Even so, these events are massively successful.



An Engine For Industry Partnership

Competitions bring more than just critical acclaim: **they bring businesses to the table.**

Competitions create an **ideal environment for public and private partnerships** to start and thrive.

Competitors would benefit from **direct engagement with Fortune 500 companies** and the **Defense and Intelligence sectors.**

UCF and local businesses would benefit from **heightened visibility and networking opportunities** with reputable, established players.

CORPORATE SPONSORSHIP TIERS

\$1,000

- Logo on sponsor slide and website

\$2,500

- Logo on sponsor slide and website
- Industry fair booth

\$5,000

- Logo on sponsor slide and website
- Industry fair booth
- Name on T-shirt
- Participate in Red or Green Teams

\$10,000

- Logo on sponsor slide and website
- Industry fair booth
- Name on T-shirt
- Participate in Red or Green Teams
- Access to all competitor resumes

\$25,000

- Logo on sponsor slide and website
- Industry fair booth
- Name on T-shirt
- Participate in Red or Green Teams
- Access to all competitor resumes
- Name on all printed competition material
- Name on lab-driven press releases

For more information about sponsorships, please contact

Email: cyberforce-sponsorship@anl.gov | Phone: (630) 252-3470



BENEFITS	SPONSOR	SILVER	GOLD	PLATINUM	TITANIUM
	\$5000	SPONSOR \$10,000	SPONSOR \$20,000	SPONSOR \$30,000	SPONSOR \$50,000
Attend the recruiting mixer	•	•	•	•	•
Digital Logo (loop) in Lounge during competition	•	•	•	•	•
Logo on competition signage (digital and physical)	•	•	•	•	•
Bag insert (provided by sponsor, literature or small item)	•	•	•	•	•
Booth at recruiting mixer (6' x 30" table)		•	•	•	•
Resumes (students attending NCCDC who choose to circulate their resume)			Day 1 of competition	3 days prior to competition	1 week prior to competition
Red team slot			1	2	3
Team room sponsorship				•	•
Branded swag (from selected promotional items)				•	•
Free-standing sign slot (up to 4' wide) in Ops Room				•	•
Choice of team room location (first-come, first-serve, schools picked at random - no choice of school)					•
10 minute speaking slot					•
Free-standing sign slot (up to 4' wide) in CEO/SME Room					•
1 interview room (for jobs the morning of awards ceremony 7:30am-10:30am, Day 3)					•
Panoply sponsor (brand recognition and 5 minute speaking slot)					•
Add-Ons:					
Team room sponsorship (first-come, first-serve)	\$1,000				
Interview room (first-come, first-serve)	\$500				
Lunch Sponsor (brand recognition)	\$500				
Red team sponsor (free-standing sign in red team room, upto 4' wide)	\$500				



NATIONAL
COLLEGIATE
CYBER
DEFENSE
COMPETITION

Presented by

Raytheon

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Our competition would not be possible without the following ongoing corporate sponsors who provide financial, infrastructure, and volunteer support.



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Bronze Sponsor



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2019 NATIONAL COLLEGIATE CYBER DEFENSE COMPETITION

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INSTITUTE FOR CYBERSECURITY
WORKFORCE DEVELOPMENT



Diamond



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NCGC: Our Vision

The NCGC Concept

NCGC is a **student-led collegiate cybersecurity competition** hosted at the University of Central Florida.

NCGC features the **most elite and high-performing** collegiate cybersecurity talent from across the nation.

NCGC **supports the next generation** of cybersecurity education and training initiatives.

Built from the ground up with research in mind, NCGC provides analysts with **360-degree visibility** into the latest advancements in **defensive and offensive cyber operations** across **multiple domains**.

A New Standard of Excellence

NCGC has a **novel design** that supports the **next generation of cybersecurity research** and development needs.

Competitors have **total creative freedom** to showcase their skills. **Realistic approaches** reflective of industry trends are both encouraged and rewarded.

Multi-domain architecture encompasses construction, attack, and defense of **modern computer networks**.

Researchers get **detailed data** about team collaboration and **modern cybersecurity practices**, tools, and techniques.



BUILD

Teams are first scored on their ability to **construct a secure network environment** matching a provided set of general criteria.

Teams submit their finished environments for scoring along with a **detailed write up** of their **unique design**.

ATTACK

For a limited time, **each team is randomly assigned to another team's environment**.

To succeed in this round, competitors must **use their offensive security skills** to penetrate the environment, disable security protections, and establish a foothold.

The newly-exploited environment, along with a report, are then submitted for scoring.

BATTLE



DEFEND

Once again, **environments are assigned to random teams.**

Competitors must race against the clock to **hunt for threats and other indicators of compromise** left by the previous round.

In the final round, **teams receive the network environment that they must maintain** for the remainder of the competition.

After a staged deactivation of the competition firewall, the network transforms into a **free-for-all battle royale.**

In real time, teams must **defend** their systems, **exploit** those of other teams, and complete **special challenges.**

Accelerating Cyber Research

IST is already a leader in this field. Cutting edge cyber ranges and training environments are built in IST labs right here at UCF.

NCGC **data will be instrumental** in the continued development of next-generation cybersecurity training and simulation environments.

NCGC datasets will drive **new and innovative research programs** that will bring UCF to the forefront of this developing area.

It's estimated that NCGC competition data could power **at least 3 doctoral dissertations.**

Local Entrepreneurs, National Opportunities

NCGC will **generate a broader interest** in UCF and security companies in the Orlando area.

NCGC forms **a direct pipeline** between local entrepreneurial networks and established players in the security industry.

NCGC provides **early visibility into industry trends** that can inform the rapid development of new business and research initiatives at UCF.

Top talent + top researchers + industry partners = a breeding ground for new and innovative ideas!

Empowering The Next Generation of Knights

While UCF has realized great success in the cybersecurity space, a **well-developed talent pipeline** is vital to **long-term sustainability**.

NCGC plans to launch an initiative to **bring high school students to the competition** and show them the opportunities UCF has to offer in cyber.

Researchers will be drawn to UCF by the unique studies being performed with NCGC datasets.

And the increased activity in this space will **improve the visibility of research programs** to existing UCF students.

UCF's Contribution to National Cyber Strategy

NCGC's mission is to develop a **repeatable, exportable model** that will set a consistently **high standard of excellence** in cybersecurity, time and time again.

At the Federal level, **numerous executive orders** have been issued by the President to address the current **national shortage** of cybersecurity workers.

With NCGC, UCF is **directly addressing Federal calls for action** in key areas including curricular, workforce, and strategic defense needs.

“The Nation is experiencing a shortage of cybersecurity talent and capability, and innovative approaches are required to improve access to training that maximizes individuals’ cybersecurity knowledge, skills, and abilities. Training opportunities, such as work-based learning, apprenticeships, and blended learning approaches, must be enhanced for both new workforce entrants and those who are advanced in their careers.”

Donald Trump

*Executive Order on America’s Cybersecurity
Workforce*

May 2, 2019

A Lasting Legacy

We want **NCGC to last** long after we graduate, so we're **founding a nonprofit** to ensure its long-term sustainability.

We believe that **NCGC is the catalyst UCF needs** to truly become a leader in cybersecurity.

NCGC can serve as a starting point for UCF to partner directly with students and industry to **capitalize on opportunities** in the cybersecurity space

In five years, **NCGC will be a self-sustaining entity** that supports and unites academic, research, and entrepreneurial cyber initiatives at UCF.

Get In Touch

hello@ncgc.io

Thank You!