



# Club Sponsorship Proposal

Rochester Institute of Technology

## What is RITSEC?

RITSEC is a student club dedicated to upholding "Security Through Community." We educate and prepare RIT students for the field of computing security. We believe security is for anyone who wants to learn and center our activities around multiple aspects of security; this includes team-based competitions, hands-on training, student-run research, and sponsor talks. Our security exercises cover a wide variety of areas in cybersecurity, including fundamental topics such as proficiency with Linux and Windows operating systems, competition offense and defense, web security, and networking services, as well as specialized areas like penetration testing, social engineering, reverse engineering, and much more. We also host multiple security competitions every year, giving our students the opportunity to train in simulated attack scenarios. These hands-on experiences provide students with real-world, practical skills they can directly apply during internships and full-time roles in the industry. We strive to stay involved with the larger security community and our alumni at conferences, from B-Sides Rochester to ShmooCon, WiCyS, DEF CON and BlackHat.

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# Section 1

## Sponsorship

### 1.1 Sponsorship Tiers

| Tier     | Amount    | Term         |
|----------|-----------|--------------|
| Silver   | \$1,000+  | One Semester |
| Gold     | \$2,000+  | One Semester |
| Platinum | \$5,000+  | Full Year    |
| Diamond  | \$10,000+ | Full Year    |
| Titanium | \$20,000+ | Full Year    |

| RITSEC  | Silver<br>\$1,000+<br>One Semester | Gold<br>\$2,000+<br>One Semester | Platinum<br>\$5,000+<br>Full Year | Diamond<br>\$10,000+<br>Full Year | Titanium<br>\$20,000+<br>Full Year |
|---|------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Events - Get a booth and network at these events  | Fall                               | Spring                           |                                   |                                   |                                    |
| IRSeC   | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| ISTS  |                                    | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Sponsored Event   |                                    |                                  |                                   | ✗                                 | ✗                                  |
| Perks - Get some fancy perks with your sponsorship  |                                    |                                  |                                   |                                   |                                    |
| RITSEC Newsletter   | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Company Logo  | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Club Talks  | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Competition Inject  | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Speak at IG/IP  | ✗                                  | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| IRSeC Tech Talk   | ✗                                  |                                  | ✗                                 | ✗                                 | ✗                                  |
| Add CTF Challenge to ISTS   |                                    | ✗                                | ✗                                 | ✗                                 | ✗                                  |
| Create Your Own CTF Challenge   |                                    | (2)                              | (3)                               | (4)                               | (5)                                |
| Keynote Presentation  |                                    |                                  | ✗                                 | ✗                                 | ✗                                  |
| Send an Item for IRSeC/ISTS Swag Bag  |                                    |                                  | ✗                                 | ✗                                 | ✗                                  |
| Send an ISTS Red Teamer   |                                    |                                  | ✗                                 | ✗                                 | ✗                                  |
| Send an IRSeC Red Teamer  |                                    |                                  |                                   | ✗                                 | ✗                                  |
| Sponsor a Mentorship Group  |                                    |                                  |                                   | ✗                                 | ✗                                  |
| Logo on Research Swag   |                                    |                                  |                                   |                                   | ✗                                  |
| CTF Keynote Presentation  |                                    |                                  |                                   |                                   | ✗                                  |
| Educational Sponsor - Non-monetary donations. Benefits are based on donation value and compared to sponsorship level. |                                    |                                  |                                   |                                   |                                    |

All Sponsors are encouraged to table and recruit at the RITSEC Career Fair Eve Event.

## 1.2 Career Fair Eve

During both fall and spring semesters, RITSEC hosts a member-exclusive career fair with all club sponsors the Monday and Tuesday before the RIT career fair. The Monday event is hosted by Zoom for all sponsors who cannot attend the Tuesday club career fair in person. The Tuesday event is hosted in the Global Cybersecurity Institute conference rooms, where each sponsor receives a table for recruitment.

This event is beneficial to sponsors because the RIT co-op requirement drives students toward a focus on hands-on experience with vulnerability research, cloud computing, incident response, red teaming, teamwork, and project management. Club members receive this experience specifically from working with club assets and attending events funded by our sponsors, ultimately creating the highest quality applicants.

Sponsors receive early access to club member submitted resumes and nearly 200 in-person security specific attendees before the larger career fair.



Career Fair Eve Fall 2024

# Section 2

## Events

### 2.1 Incident Response Security Competition (IRSeC)

IRSeC is our beginner-friendly competition that focuses on the basics of network defense and incident response. The environment exposes competitors to technologies commonly found in industry, while giving them the opportunity to learn. They will be asked to keep business critical services up and available. Competitors will also be asked to complete various assignments and tasks, called injects, which are similar to day-to-day business tasks. While handling these aspects, the student-led RITSEC Red Team attacks the competing teams to simulate threat actors. The competition is designed to teach the fundamental concepts of incident response in a fun, hands-on manner.

Sponsors of tiers Gold and up are encouraged to set up booths at IRSeC and recruit RIT security professionals.



Mid-Competition IRSeC 2024

### 2.2 RITSEC CTF

The RITSEC CTF (Capture the Flag) is a Jeopardy-style competition hosted online for sixty hours in the late spring. Participation is open to teams internationally. The CTF generally focuses on binary exploitation, reverse engineering, cryptography, forensics, programming, and web security challenges. We welcome all skill levels!

## 2.3 Information Security Talent Search (ISTS)

ISTS is an annual three-day competition hosted in the early spring at RIT. Every year, competitors from RIT and 17 colleges around the country are faced with a wide variety of challenges which are designed to cover many facets of the security industry. This includes defensive and offensive capabilities, system administration, software security, networking, programming, and much more! Challenges and activities include a thematic physically security game, Capture the Flag (CTF), King-of-the-Hill (KoTH), policy writing, incident response, and code review. They must do this all while defending a completely student-built infrastructure. Many collegiate teams are invited back from previous years but there is now an opportunity for new teams to compete in a qualifier to earn a spot at ISTS.

Sponsors of tiers Gold and up are encouraged to set up booths at ISTS and recruit young security professionals.



Group Photo ISTS 2025

## Section 3

# General Meetings

### 3.1 Education

The first half of our weekly meetings (from 12pm - 1pm ET) are for Education where a student or guest speaker gives an hour long presentation where they introduce a security related topic. The speaker is typically well-versed in the topic and provides a unique perspective on the subject. These subjects can range from Blue Teaming topics such as *Intro to Linux* and *Intro to Windows* to more in-depth topics such as *Binary Exploitation/Reversing* and *Wireless/Hardware Security*.



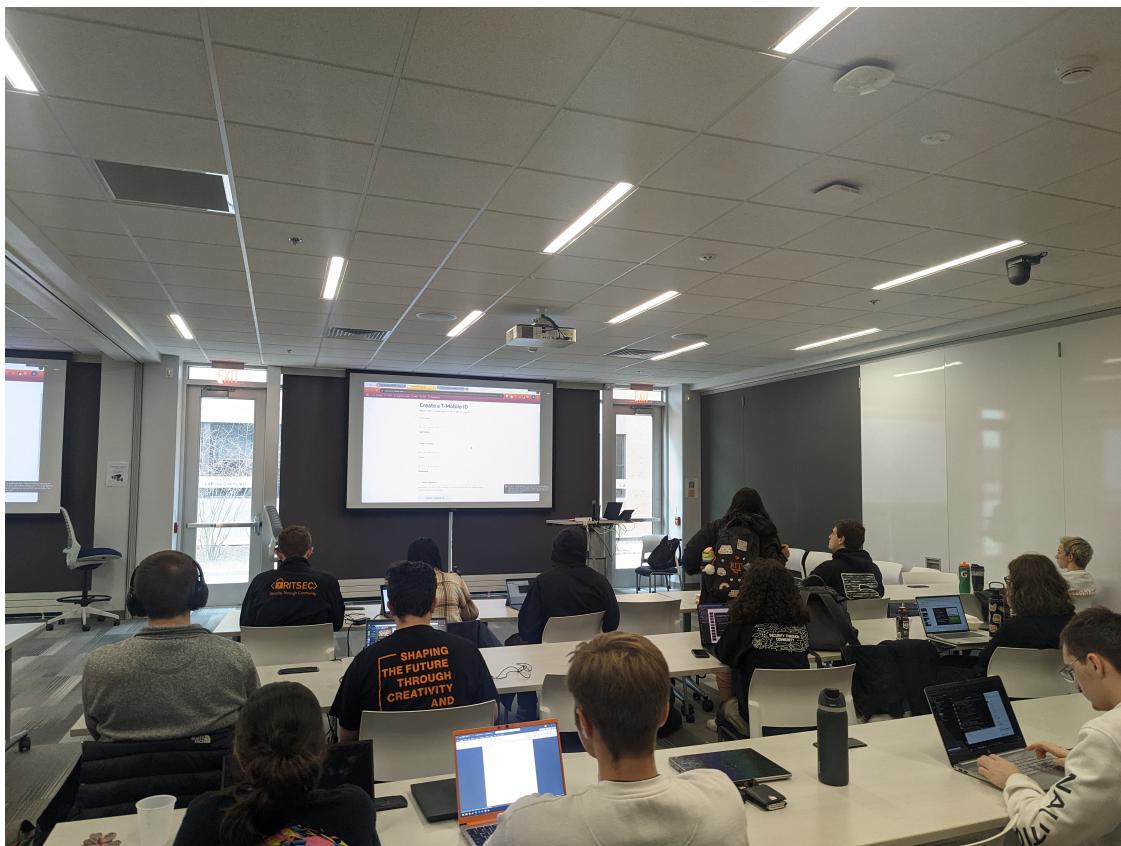
Education Fall 2024

## 3.2 Demos

Weekly demonstrations (demos) are the members' chance to get hands-on experience learning the education topic from that week. They operate like a year-long capture the flag (CTF) competition for members where 5 new challenges are added every Friday. The demos are split into three tiers: easy, medium, and hard. Easy demos can be solved by listening to the week's Education topic, while hard demos involve research and ingenuity to solve. This structure is set up to reinforce research, critical-thinking, and problem-solving skills.

## 3.3 Research

Many of our members work on personal projects and security research during the academic year. RITSEC's Research section—the second portion of our weekly meeting (2pm - 4pm ET)—is where members present their research. There are usually three or four presenters each week. This section allows for club discourse and helps get other members interested in doing projects outside of class. We also offer grants for our members, allowing them to request funding for paid services. This helps our members create amazing presentations!



Industry Presenter from BugCrowd during Research Spring 2025

## Section 4

# Competition Teams

### 4.1 Collegiate Cyber Defense Competition (CCDC) Team

The CCDC team participates in a competition that simulates real-world cybersecurity scenarios. As a blue team, their role is to manage and defend the IT infrastructure of a mock business, working to maintain critical service availability, respond to business needs, and identify and remediate live cyberattacks from a professional red team.

As part of their recruitment efforts, the team holds weekly tryout sessions each fall semester to educate aspiring members and identify new talent. Tryouts conclude with a "CCDC Mini Comp" run by club members to evaluate cyber defense skills in potential new team members. Open to all students in RITSEC, this competition is a great opportunity to gain experience and sharpen blue team skills.

Our team has placed top 3 in the Northeast region for the past 5 years.



NECCDC Regionals 2025

## 4.2 Collegiate Penetration Testing Team (CPTC)

The club's premier penetration testing team. The students that compete on our CPTC team learn known vulnerabilities in Active Directory, Windows, and Linux and how to exploit them. In competitions, these students break into competition architecture that simulates enterprise ecosystems as well as write comprehensive remediation and compliance reports.

Our team won the global competition in 2021 and placed 3rd in 2024.



Global CPTC 2024

## Section 5

# Interest Groups & Partnerships

### 5.1 WiCyS Student Chapter Partnership

The Women in Cybersecurity Student Chapter at RIT is an all-inclusive organization dedicated to making RIT's computing security community an encouraging environment for women. The chapter holds meetings and events for students to share their passion for security while also creating a supportive network in partnership with RITSEC.

### 5.2 Operations Program

The Ops Program is responsible for supporting our physical infrastructure that is used for competitions, weekly Capture the Flag challenges, and other club programs. Members learn the inner workings of topics like software-defined networking, infrastructure-as-code, and datacenter hardware configuration, all on cloud-scale infrastructure.

### 5.3 RITSEC Red Team

A group of students and alumni write and use custom tooling to attack competition infrastructure. This provides a challenging learning environment for blue teams.

### 5.4 Team Contagion

Contagion represents RITSEC in a variety of Capture the Flag (CTF) competitions. Members compete at different ranges of difficulty on both the national and international levels. Additionally, the team creates their own challenges for both the annual RITSEC CTF and the CTF within our ISTS competition.

### 5.5 Wireless

The Wireless Interest Group focuses on penetration testing and securing wireless protocols such as WiFi, Bluetooth, Radio, etc. Through the interest group, students hear presentations from senior members of the club, industry alumni, RIT grad students, and RIT professors. The grad students and professors present research and go in-depth on how the wireless security industry is changing.

### 5.6 Incident Response

The Incident Response Interest group is focused on all things Incident Response. The group specifically targets incident response in a corporate environment but covers both technical and non-technical aspects of Incident Response.

## **5.7 Reversing**

The Reversing Interest Group revolves around the in-depth knowledge of binary applications and ultimately reverse engineering malware. Topics such as assembly, executable formats, malware tactics, and much more will be discussed over the entire program's running.

## **5.8 Physical Security**

In the Physical Security Interest group, members will learn all the basics of the world outside of the computer. They get experience picking locks, using alternative entry methods, social engineering, and leveraging open-source intelligence. This group teaches students useful skills that are not typically covered in a computing security education.

## **5.9 RVAPT**

At RVAPT, members learn how to find and exploit vulnerabilities in networks and associated services via hands-on, custom labs. Each week, they learn one to two ways to break into a network and keep building upon it throughout the semester.

# Section 6

# Activities

## 6.1 Mentorship Program

Open to all students, RITSEC's mentorship program pairs more experienced upperclassmen with younger students, having them work side-by-side on security projects. Forming connections between upperclassmen and mentees fosters the environment of learning and productivity RITSEC strives to have every day, and creates the highest quality students. Upon completion, all mentorship project groups present their experience and findings to the club during the research portion of general meetings.

Some examples of recent mentorship topics have been:

- Freshie's First SIEM: Work through Splunk's College and Workforce training program and prepare for the Splunk Core Certified User exam.
- Ducks in the Wild: Learn how to develop and use a "Bad USB," commonly known as a USB Rubber Ducky. to both attack and defend a computer.
- Networking Essentials: Students learn how to set up and secure networks for defense, and then flip the script by using networking skills in red team scenarios. Whether you're setting up firewalls or launching an attack, this mentorship will equip you with the knowledge to take control of any network environment!
- Wardriving: Involves creating, typically in a hardshell carry case, a wireless packet sniffing device that contains location data to then map networks anywhere it passes by. This group developed a wardriving carry case that can be brought around campus to learn more about hands-on wireless security.
- 404 Found Us: Learn and develop a fundamental understanding of how web applications are built, how to spot vulnerabilities in them, and how to recommend mitigations.

## 6.2 Conferences

We also provide resources to our members to attend and network at popular security conferences. For example, our main conference of the year is ShmooCon, a large conference hosted in Washington, D.C. every January. For this event, we have our dedicated Shmooze-a-Member fund to pay for members who did not receive ShmooCon's Shmooze-a-Student scholarship.



ShmooCon 2025

Our WiCyS student chapter also attends the Women in Cybersecurity conference annually. These students in our WiCyS chapter are well equipped to properly engage with industry professionals and gain more from attending these conferences because of the intersectional experiences they have from both RITSEC and WiCyS RIT.



WiCyS 2025

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# Find Us Online

- **Website**  
<https://www.ritsec.club/>
- **Twitch (Weekly Meetings, 12-4pm EST)**  
<https://www.twitch.tv/ritsec>
- **YouTube (Archived Talks)**  
<https://www.youtube.com/c/RITSEC>