



Security Through Community

## RITSEC Club Sponsorship Proposal

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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>

## Contact Us

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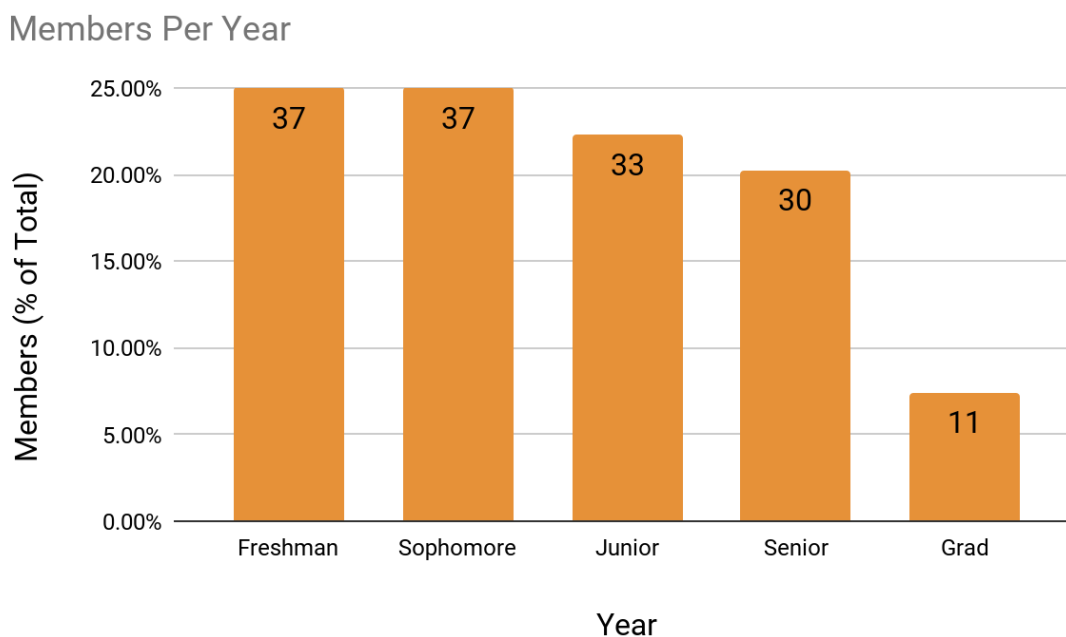
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## What is RITSEC?

RITSEC is a student club dedicated to teaching "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 computing security, such as: Windows and Linux operating systems, penetration testing, competition offense and defense, social engineering, web security, networking services, reverse engineering, and much more. We also host multiple security competitions every year, giving our students the opportunity to train in a simulated attack scenario. Our members also socialize with the larger security community at conferences.

## Our Members (2020-2021)

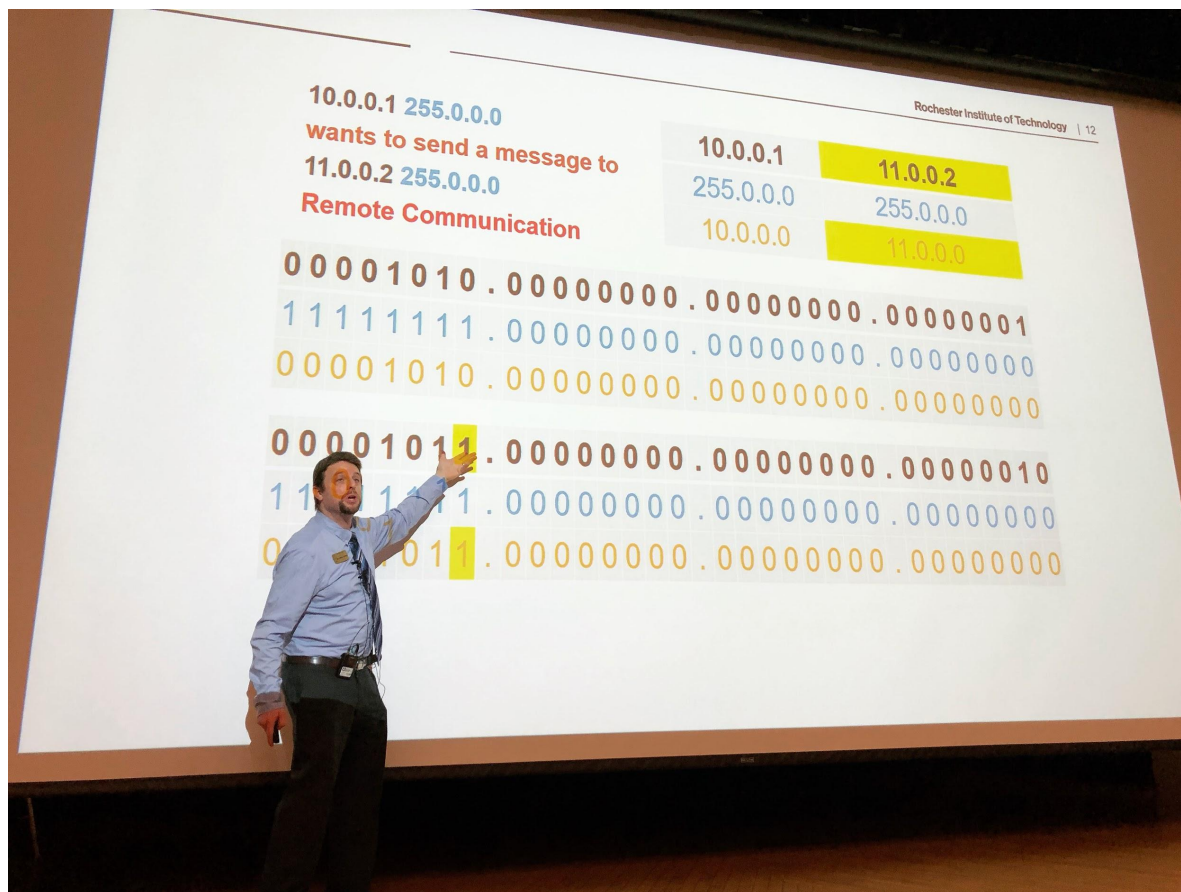


## Education

The first half of our weekly meetings (from 12pm - 2pm ET) are for Education alongside a related demo. This section starts with a student or guest speaker giving an hour long presentation introducing a security related topic. The speaker is typically well-versed in the topic and provides a unique perspective on the subject.

We create Capture the Flag (CTF) challenges from these topics—called “demos”—which are open for all members to complete following the presentation. 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 give members hands-on experience with the topic at hand, and to reinforce research, critical-thinking, and problem-solving skills. These demos culminate in a semester-long CTF competition, which provides members with a healthy dose of competition and a helpful learning resource.

Guest Speaker Professor Weissman - Introduction to Networking Education Talk



## 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!

Simon Buchheit - personal research presentation





## Events

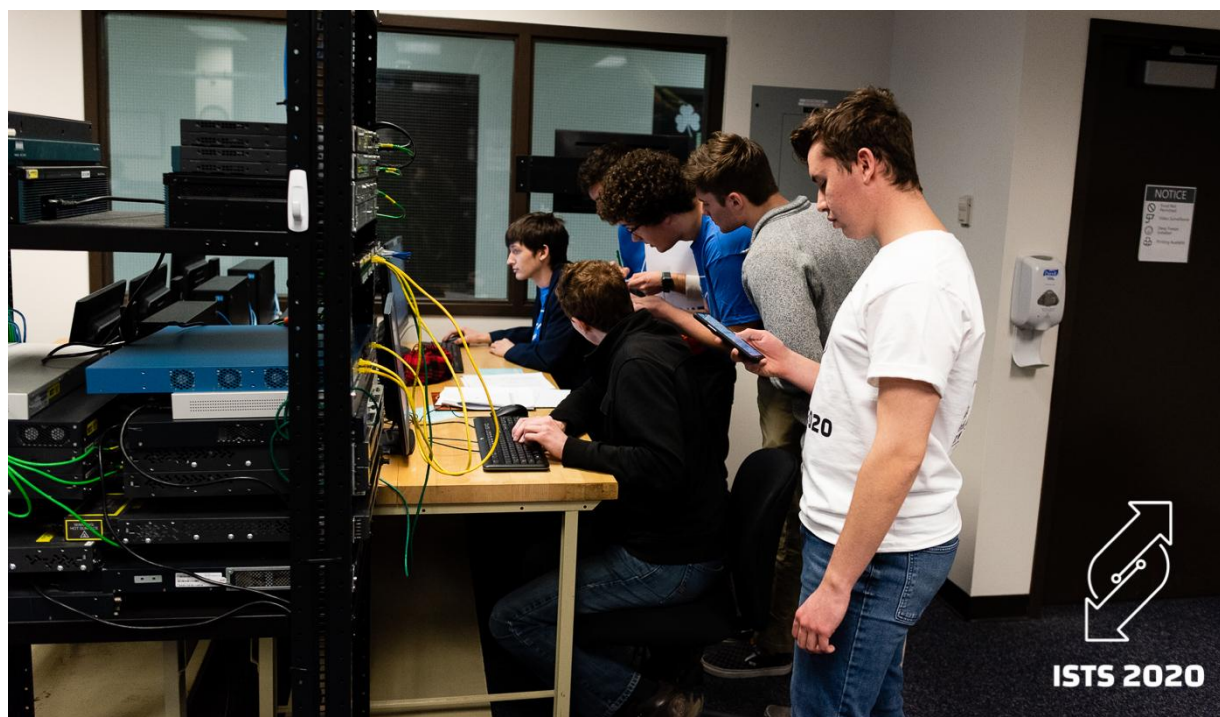
### IRSeC

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.

### 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!

ISTS 2020 Blue Team Mid-Competition



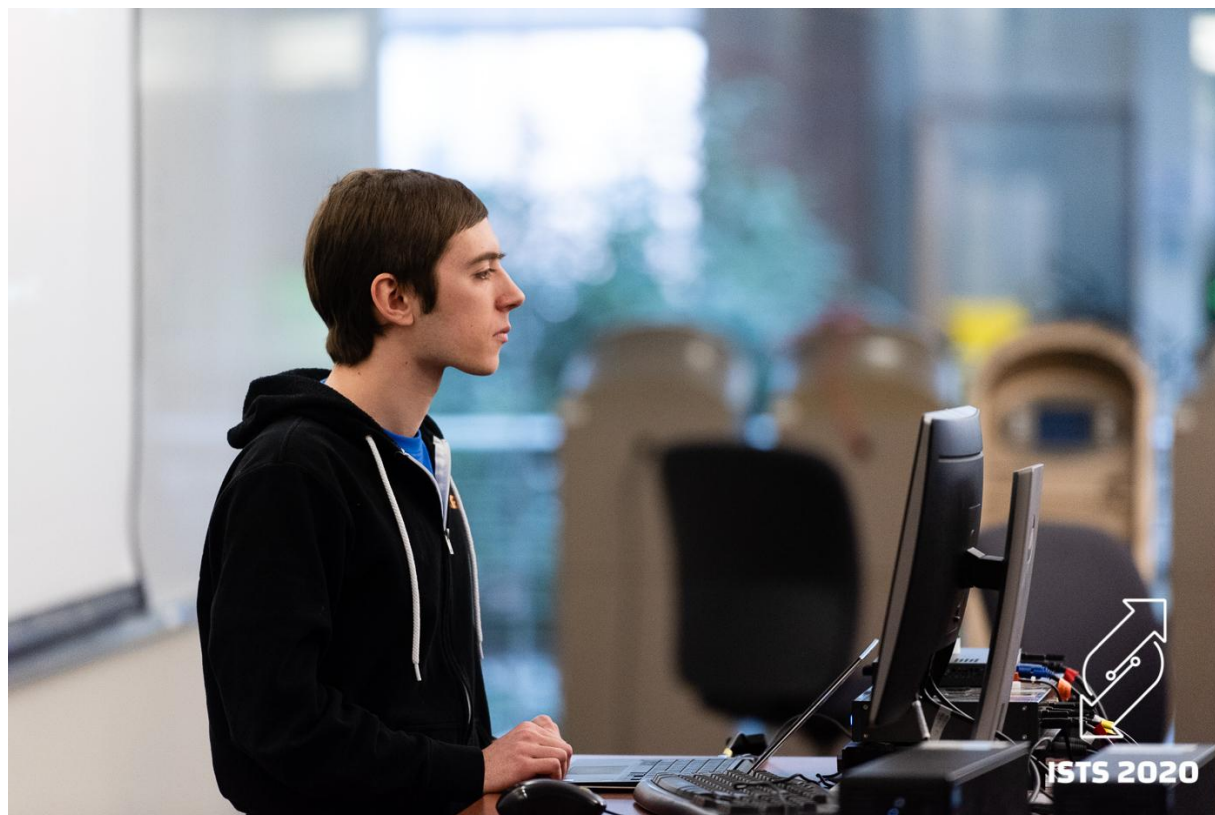
## NSIC

The Networking and Systems Infrastructure Competition (NSIC) is focused on building a corporate network topology from the ground up. Participants work with hardware from multiple vendors, and must work together to configure and deploy software based on business task requirements.

## ISTS

The Information Security Talent Search (ISTS) is an annual three-day competition hosted in the early spring at RIT. Every year, competitors from both RIT and 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 game, Capture the Flag (CTF), King-of-the-Hill (KoTH), policy writing, incident response, and code review—all while defending a completely student-built infrastructure. This year, we are increasing the outreach of ISTS with the inclusion of qualifier rounds, which allows more schools the opportunity to participate.

Phillip Babey - presenting a report for a competition inject





## Interest Programs

### WiCyS Student Chapter

The Women in Cybersecurity Student Chapter at RIT is an all-inclusive interest group 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.

### 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.

### 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.

## Interest Groups

Interest groups are smaller-scale groups that meet weekly with a more directed focus. Some topics include: reverse engineering, Capture the Flag, physical security, incident response, Internet of Things, and more. Members are encouraged to start their own groups.

## Activities

### 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 with the upperclassmen and allowing for mentees to work together helps set the right mindset as an RITSEC member.

### Conferences

RITSEC also attends conferences! We provide resources to our members in order to attend and network at popular security conferences. For example, Shmooze-a-Member is our dedicated fund we use to pay for members rejected from the Shmooze-a-Student scholarship.

Shannon McHale - Presenting a firetalk at ShmooCon



## Sponsorship Tiers

<b>Tier</b>	<b>Amount</b>	<b>Term</b>
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

*See next page for full tier breakdown*

