



# 2020 SLC&SWOT Report

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Rensselaer



Northeastern



TUSKEGEE  
UNIVERSITY



# Presentation Agenda

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- Introduction of SLC
- SWOT Survey Results and Analysis
- SLC Activities and Contribution



# 2020 SLC&SWOT REPORT

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## INTRODUCTION OF SLC



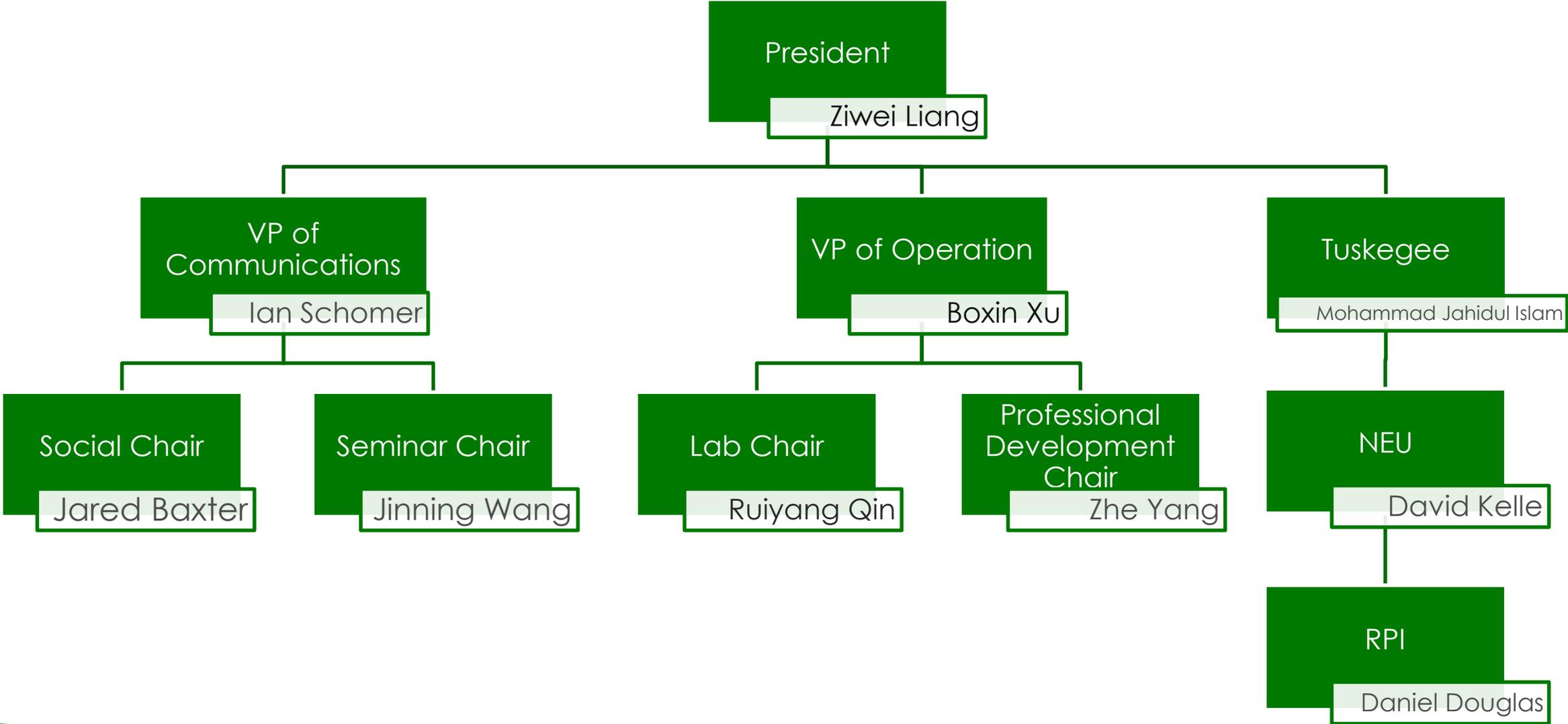
# Mission Statement of CURENT SLC

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The purpose of the CURENT Student Leadership Council (SLC) is to be an organization for the student community that can represent their ideas, broaden their experience, and help maintain the overall well-being of all CURENT students.



# Year 10 CURENT SLC Committees



# 2020 SLC&SWOT REPORT

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## SWOT SURVEY RESULTS AND ANALYSIS

# SWOT Structure

## Survey

- Individual
- Quantitative
- Respond to a series of statements with level of agreement
- 73 responses total

## Focus Groups

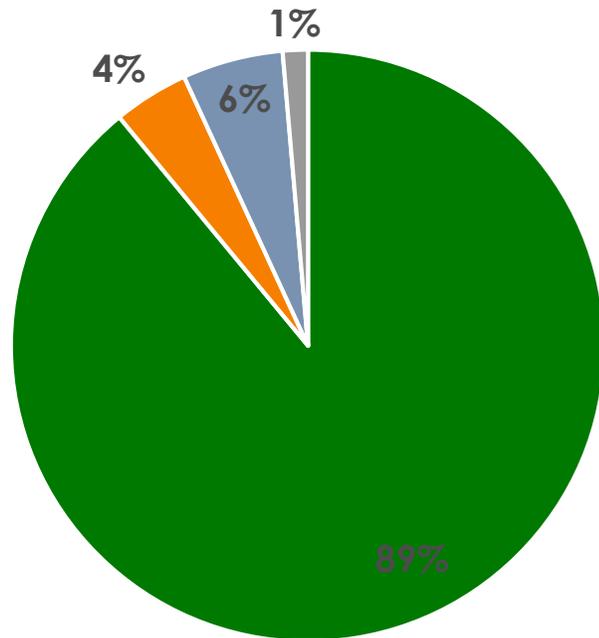
- Collaborative
- Qualitative
- Feedback on Strengths, Weaknesses, Opportunities, and Threats of CURENT
- 61 responses total

Data was collected from 9/9/2020 to 9/29/2020

# SWOT Survey Participation

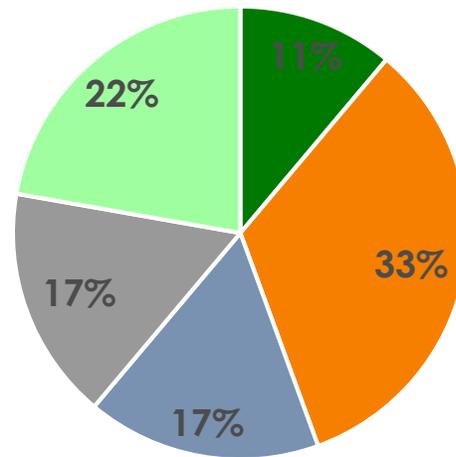
- Answers from 1 (strongly disagree) to 5 (strongly agree)

School Affiliation



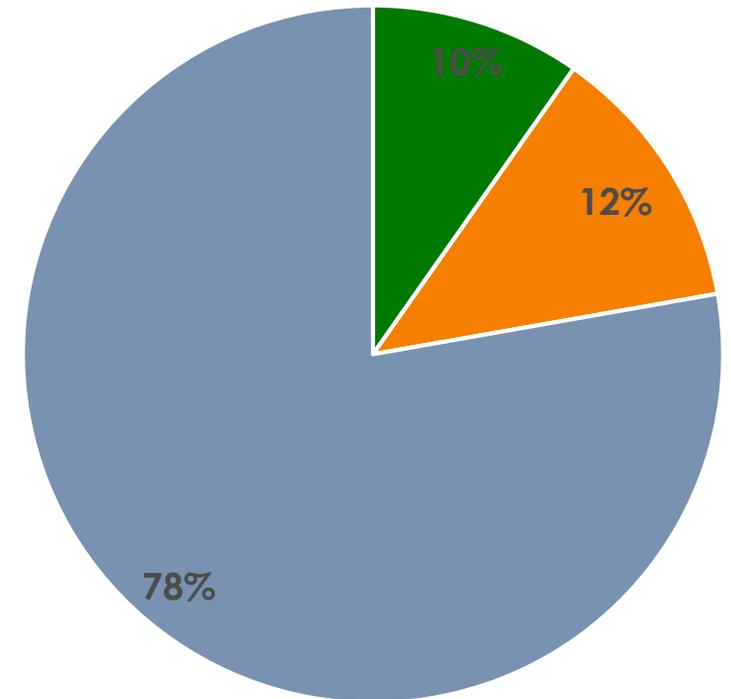
■ UTK ■ RPI ■ NEU ■ Tuskegee

Years with Advisor



■ Less than 1 ■ 1 ■ 2 ■ 3

Degree Pursuing



■ Bachelor's Degree ■ Master's Degree



# CURRENT as an Organization

Level of Satisfaction

Diverse research opportunities



Faculty/student ratio



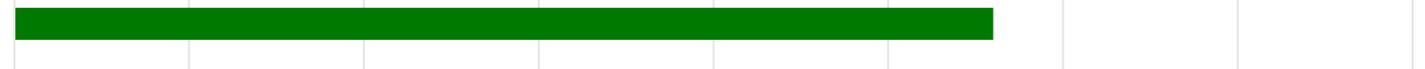
Industry collaboration



Faculty/research area ratio



Website utilization



Social media utilization



## Strengths

- Well funded, excellent facilities
- Diverse faculty expertise
- Breadth of comprehensive research

## Opportunities

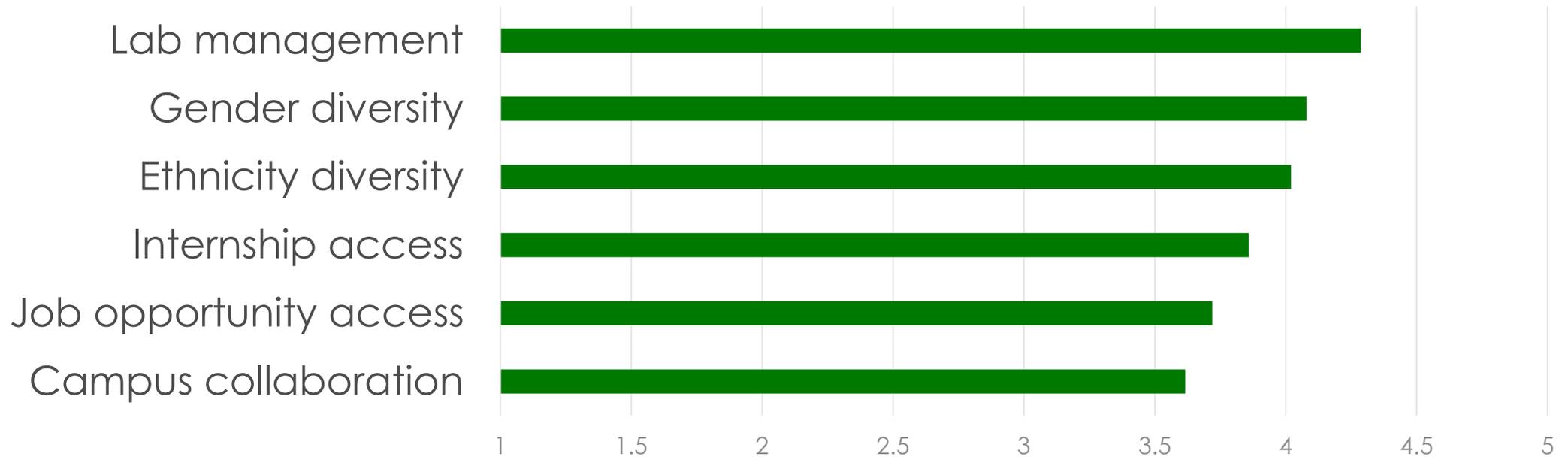
- Further advertise CURRENT on online platforms
- CURRENT-specific job fair with industry connections

focus group responses



# CURRENT as a Workplace

Level of Satisfaction



## Strengths

- Exceptional lab management response to COVID-19
- Spacious, up-to-date workspaces
- Diverse work environment

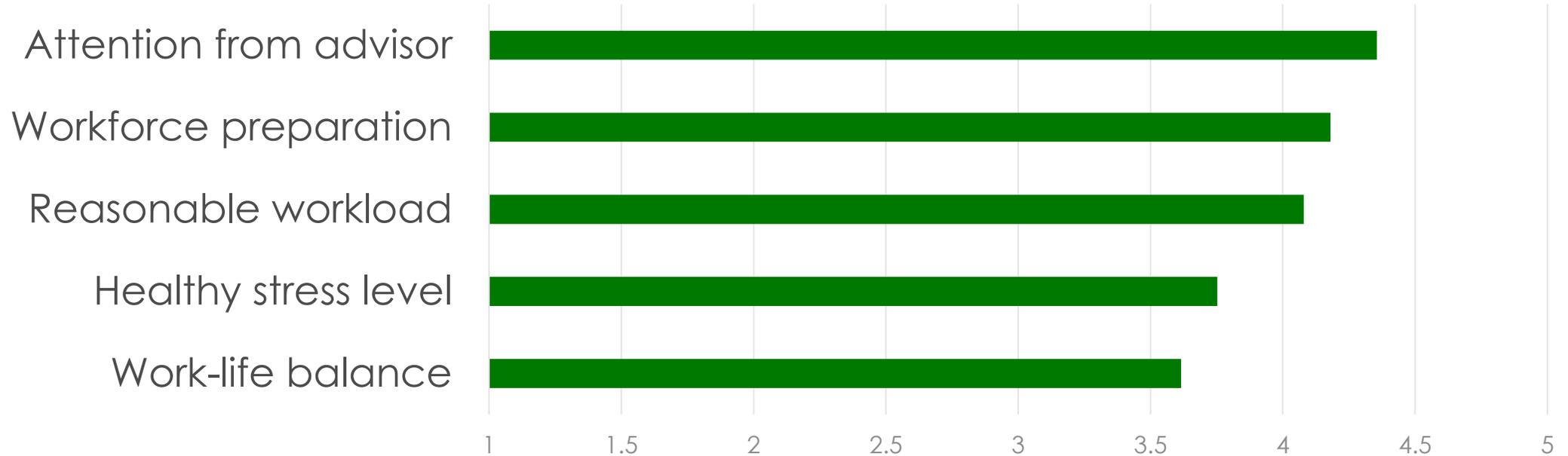
## Opportunities

- Apply lessons learned from working virtually to involve cross-campus involvement

focus group responses

# Individual Student Experience

Level of Satisfaction



## Strengths

- Faculty advisors have active interaction with students (even outside group)
- Site Visit provides context to research
- Seminars enrich student experience

## Opportunities

- Continue to use Slack to encourage each other through community channels
- More resources for QEs and intn'l student orientation

focus group responses

# Acknowledging Focus Group Feedback

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- Weaknesses
  - lack of collaboration among researchers (inefficient spread of knowledge) (weak PS/PE connection)
  - Lack of supporting students academically
  - Not many seminars from power systems
- Threats
  - COVID has caused the lack of sense of community
  - COVID has caused issue on coordinating on research
  - Tougher to get research funding due to the pandemic and bad economy, because the research funding will decline

# 2020 SLC&SWOT REPORT

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## SLC ACTIVITIES AND CONTRIBUTION

# Lab Committee Improvement

Diverse resources and good management:

- Well-organized resource website—CURENT Student Wiki:
  - 1) Kinds of practical tutorials, including software operation, Experimental skill and so on.
  - 2) Equipment list : make the inventory accessible to all students
- Establish on/off board system for new and graduating students
- Monthly CURENT lab newsletter
- Recruit new members for the committee for sustainable lab improvement

The screenshot displays the CURENT Student Wiki interface. At the top, there is a navigation bar with the CURENT logo and the text "CURENT Student Wiki". Below this, there are several menu items, each with an icon and a label:

- CURENT Student Wiki** (with a radio tower icon)
- UTK Labs** Lab Equipment & Layout (with a graph icon)
- Safety Training** (with a person icon)
- Safety Policy** (with a clipboard icon)
- Lockout Procedure** (with a clipboard icon)
- Energy Control Procedure** (with a clipboard icon)

Below these items is a section titled "Tutorials" which contains a grid of tutorial categories, each represented by a folder icon:

- Protocol/Regulation Tutorials
- Software Tutorials
- Student Life
- Equipment Usage Tutorials
- Hardware Design/Testing Tutorials
- All Tutorials (26)



# Lab Committee Improvement

Effective and organized arrangement to keep safe during epidemic:

- Strictly enforced returning lab procedure
- Sophisticated arrangement and resource, i.e. lab safety rules/ Lab layout / scheduling and self-check system / separate equipment and tools
- Keep the lab and benches clean and organized during the pandemic



CURENT Student Wiki



### Procedure for returning to the lab:

1. Read and strictly follow the CURENT lab safety rules for COVID-19
2. View the lab layout and identify which lab and area you want to work at.
3. Visit the scheduling system to check for available time slots.
4. Email the lab committee at lab@curent.org with your scheduling details: (lab and area numbers, date, time)
5. Receive a confirmation email from the lab committee.
6. Fill out the self-check form and submit it through school system.

#### NOTE:

- Please email Swhite71@utk.edu for scheduling lab 402, and hcui7@utk.edu for scheduling lab 503.
- The scheduling request has to be handled by the lab committee.
- Only scheduling within 24 hours in advance is allowed.
- One time slot per request.



Lab Safety Rules



Divided Lab Layout



Scheduling System



Self-check Form

### CURENT Laboratory Schedule

[This Week](#) [Next Week](#)



## Laboratory Schedule

	7AM - 11AM	11:15AM - 3:15PM	3:30PM - 7:30PM	7:45PM - 11:45PM
<b>Monday, 09/28</b>				
Laboratory 101		Jingxin, Shuyao		
Laboratory 101A				
Laboratory 117			PA group	
Laboratory 125-1		Yu	Spencer Cochran	Zhan Gao
Laboratory 125-2			John Meadors	Wen Zhang
Laboratory 125-3			Haiguo Li	
Laboratory 125-4			Liyan Zhu	
Laboratory 402-1				
Laboratory 402-2				
Laboratory 530				
Laboratory 531				
Laboratory 533				
Room 124-1		Jingxin, Shuyao		
Room 124-2				



# Social Engagement Efforts

- Slack interests & hobbies channels
- Weekly virtual game nights
- Virtual events (photo contest, Netflix + chat event)
- March Madness brackets
- Coffee Break series
- **Community outreach**  
(Family Engineering Night)



**CURENT**  
**March Madness**  
**Bracket Challenge**

**NCAA**  
**MARCH MADNESS**  
tbs CBS TNT tru

Prize Pool Top 3 winners:  
Raspberry Beats Solo3 Headphones, Apple 32GB iPad, Yeti Roadie 20 Cooler

Brackets will open **Sunday, March 17<sup>th</sup>** and lock before noon **Thursday, March 21<sup>st</sup>**  
Final Four Watch Party **April 6<sup>th</sup>**

Sign up with Free CBS Sports Account here:  
[bit.ly/slcmarchmadness](http://bit.ly/slcmarchmadness)

Open to all IEEE Members and Active/Prospective/Alumni CURENT Students, Faculty, and Staff  
No Cost for participating



# Professional Development Committee

- SLC Mentorship program continued in Fall 2019 and Spring 2020
  - 19 students including mentors and mentees participated
  - 3 first-year UTK PhD students matched with 3 RPI students in addition to their UTK mentors



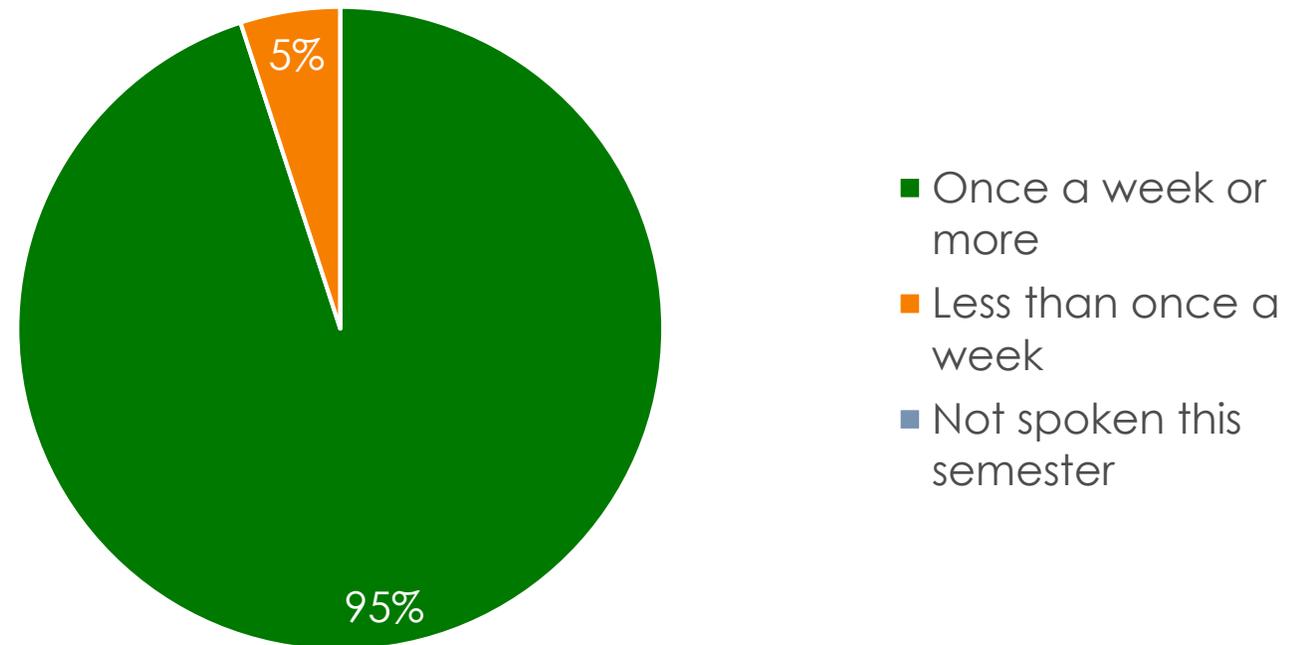
- Professional training for students
  - Full-day Culture of Inclusion training with Pope Consultant



# Mentorship Program

- SLC Mentorship program has received much positive feedback
- The students have gained the experience they need from their mentors regarding academic and opportunities through frequent communication.

How often do you talk with your mentor?



# Seminar Committee

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Student/Faculty  
Showcase



Industry  
Presentation



Professional  
Development



Non-engineering  
Enrichment

- Continued showcase of diverse seminar topics
- Phased in more introductory workshops
- Seamless transition to virtual platform



# Future Plan

## Academic

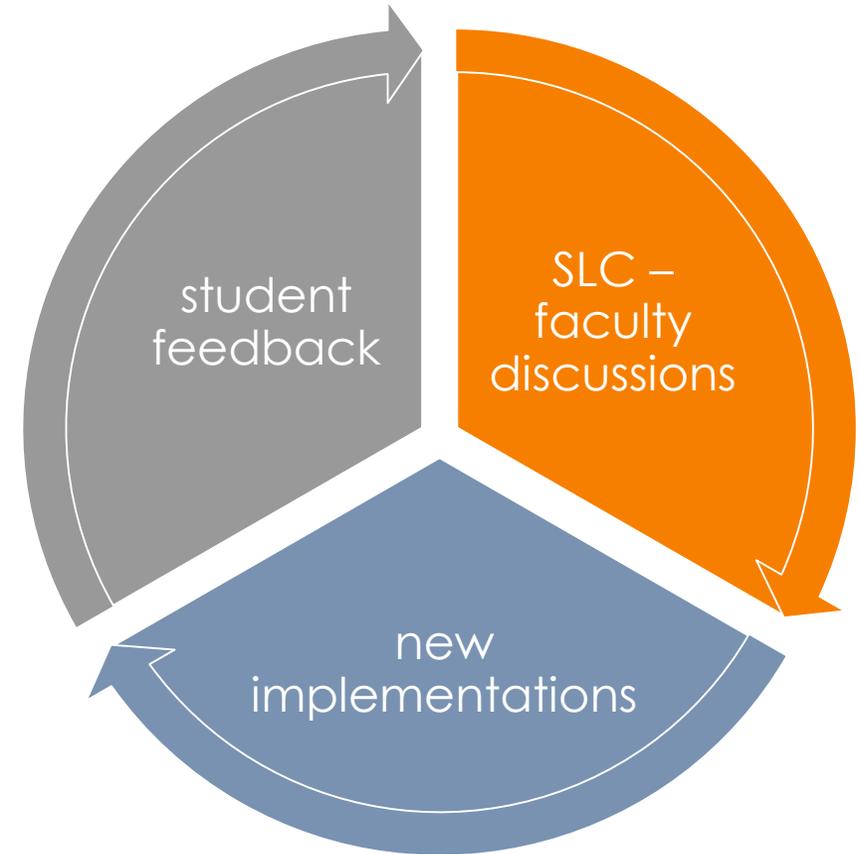
- Create expertise search platform for better collaboration
- Tailor seminar schedule based on feedback

## Social

- More virtual/socially distanced events
- Improve Slack activity

## Personal

- Unify wellness resources on CURENT website



SLC Improvement Model



Thank you



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