



DREXEL UNIVERSITY

College of

Computing &  
Informatics





**Virtually Tour Our College:  
[drexel.edu/cci/about/our-facilities/](https://drexel.edu/cci/about/our-facilities/)**

**#newdragons**



# Drexel College of Computing & Informatics

- One of the most comprehensive academic units in the nation
  - Focal point for computing at Drexel
- Co-op: An experiential reflection of industry demand
- Tier 1 research institution and graduate programs
- Diverse student population and faculty
- Special commitment to Women in Technology
- Ranked #1 in "Innovative Impact"
- Ranked in top ten by CodeSignal for top tech talent
- Philadelphia: Be at the cultural center of it all



**60 Full Time Faculty**

**1,500 Undergraduate Students**

**2,400 Total Enrollment**

**237 International Students**



# CCI Women in Tech

*“Networking with other women in tech fields has taught me a lot. It’s great to learn other people’s stories and discover how they got to be where they are right now.”*

- Minh Le, BS Computer Science ‘21



# A wide range of academic opportunities



# Comprehensive Coverage of Computing and Informatics

Computer Science

Computing & Security  
Technology

Data Science

Software  
Engineering

Information Systems

Computing Theory  
Programming

Computing Application  
Client Needs

Undeclared

Economics and Data  
Science\*\*

\*\*NEW Joint program  
with Lebow



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# Computer Science (BS or BA)

## Foundations, theory, and depth in specialty areas of the science of computing

- Complete required and elective courses from a variety of tracks:
  - Artificial Intelligence
  - Graphics and Interaction
  - Computer and Network Security
  - Game Design and Development
  - Data Structures and Algorithms
  - Numeric & Symbolic Computation
  - Computer Architecture
  - And Many More!
- Concentration in Computer Security
- Concentration in Game Programming and Development (GMPD)
- BS/MS Program available at 90 credits

# Game Programming & Development Concentration

- Combines software development, programming and design skills
- Joint Program with Westphal College of Media Arts & Design
- Two tracks included:
  - Game Development and Design
  - Student's Choice of Second Track





# BS in Software Engineering

## Software systems designed and built by teams

- Requirements, design, and development
- Development tools and techniques, product evolution, quality assurance, secure software
- Challenges:
  - Designing software that people enjoy using
  - Leading software development teams
  - Delivering high quality software products on time, within budget





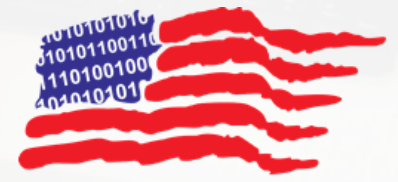
# BS in Computing & Security Technology Drexel's Cybersecurity Degree

IT Infrastructure management, planning, operation, and security

- Core IT infrastructure areas: networks servers, databases, cloud and network security, ethical hacking, and more
- Concentrations in two areas
  - Computing Technology
  - Computing Security



**CAE**  
IN CYBERSECURITY  
COMMUNITY

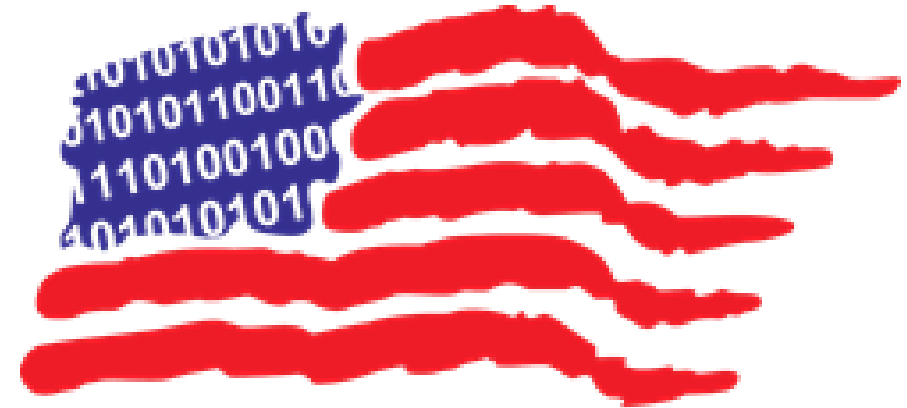


**CyberCorps®**  
Defending America's Cyberspace



# Drexel CyberCorps

- \$4 million grant from U.S. Department of Homeland Security and the National Science Foundation to launch a CyberCorps® Mentoring and Scholarship Program
- **Full-tuition scholarship** for last 2.5 years at Drexel
- Builds a diverse cybersecurity workforce by recruiting, mentoring and retaining all students especially:
  - Veterans
  - Women
  - Underrepresented minorities



**CyberCorps®**  
*Defending America's Cyberspace*

# BS in Information Systems

## Technology applied to meet the information needs of individuals and organizations

- Bridging two worlds:
  - Interact with clients to understand their information needs
  - Work with software developers to implement solutions
- Focus on requirements and system design, database definition, user experience and human-computer interaction
- Minor included in the degree

# BS in Data Science

Discovery and visualization of information hidden in oceans of data

- Provide unique insights for science, business, or social good.
- Harness Big Data through data mining, data visualization, data curation, and exploratory data analysis.
- Develop insights about people's behavior and solve problems that require huge and varied datasets.
- Minor included in degree (typically business or natural science).



# BS in Economics and Data Science (STEM- Joint Degree Between LCB and CCI)

- One of only a handful of such programs at U.S. universities (e.g. Brown, Yale, Illinois, MIT)
- Benefits of a BS in Economics and Data Science:
  - Increasing digitization of our lives makes the ability to analyze, interpret and report on data increasingly valuable
  - Tools from data science allow students to manipulate and organize the increasingly large, varied and complex data that surround us
  - Insight from economics equips students to use data for forecasting or to establish causal relationships
- Course offerings include:
  - ECON 270 Using Big Data to Solve Economic and Social Problems
  - INFO 250 Information Visualization
- 39 credits of free electives make it easy to customize

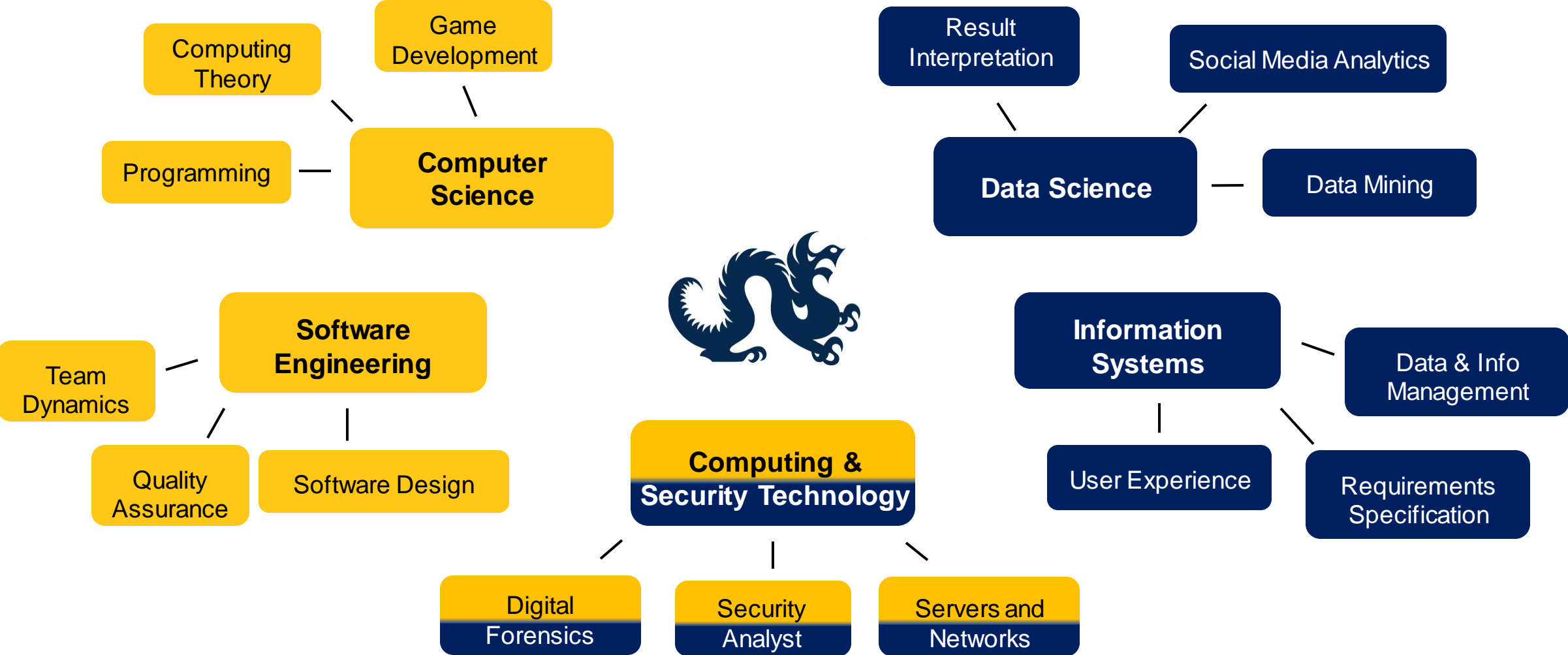
# Undeclared: Computing and Information Science

**Explore All of the CCI Majors in Greater Depth Freshmen Year, before you commit**

- Pre-arrival: Complete math placement exam and interest survey
- Work closely with CCI advising to select courses
- Participate in additional sessions about majors and career paths
- Declare major by the end of second term
- Complete freshman year in a CCI major



# Comprehensive Coverage of Computing and Informatics





# First Year at CCI – What Will You Study?

- Complete placement exams prior to first term
- Introductory coursework in your major
- Introductory programming
- Introduction to Drexel student life via UNIV 101
  - Co-op and Civic Engagement
  - Builds community among students, faculty, and staff
- CCI first-year design sequence – all CCI majors
  - Explore the basics of all the CCI majors
  - Work on a team project in an area you choose
- Math, English and (for some majors) Science



# Test drive your career: Cooperative education (Co-op)



# Cooperative Education (Co-op)

- Steinbright Career Development Center
- Gain diverse range of professional work experience
  - Up to 1 ½ years
- Co-op abroad

**#1**

CCI students earn the highest co-op salary out of all Drexel students

**8**

of the top 10 jobs of 2020 are tech positions (Glassdoor, 2020)

**\$74,000**

Average starting salary for Drexel CCI Graduates  
PayScale 2020 College Report

## DREXEL CO-OPS VERSUS INTERNSHIPS

STUDENTS ARE EMPLOYED FOR A 3 OR 6 MONTH PERIOD



TYPICALLY LAST 2 - 3 MONTHS

MOST CO-OPS ARE PAID POSITIONS



MANY INTERNSHIPS ARE UNPAID

STUDENTS DO MAJOR-RELATED WORK WITHIN THE GUIDELINES OF THEIR ACADEMIC PROGRAM



WHILE POSITIVE, INTERNSHIPS ARE NOT NECESSARILY MAJOR-RELATED

CO-OPS ARE FOR ACADEMIC CREDIT AND PART OF A STUDENT'S OFFICIAL TRANSCRIPT



INTERNSHIPS ARE USUALLY NOT A REQUIRED PART OF THE ACADEMIC PROGRAM



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**Key:**

- Academic Term
- Co-op Term
- ◆ Vacation

### Four Year, One Co-op Option

	FALL	WINTER	SPRING	SUMMER
Year One	●	●	●	◆
Year Two	●	●	●	●
Year Three	■	■	●	●
Year Four	●	●	●	

### Five Year, Three Co-op Option

	FALL	WINTER	SPRING	SUMMER
Year One	●	●	●	◆
Year Two	■	■	●	●
Year Three	■	■	●	●
Year Four	■	■	●	●
Year Five	●	●	●	

# CO-OP & CAREER FAST FACTS | COLLEGE OF COMPUTING & INFORMATICS

**98.5%** OF COLLEGE OF COMPUTING & INFORMATICS (CCI) STUDENTS WERE EMPLOYED ON CO-OP IN 2018–19.

**\$22** REPORTED MEDIAN HOURLY SALARY OF PAID CO-OPS FROM AY 2018–19

- \$23** Computer Science
- \$20** Computing & Security Technology
- \$20** Data Science
- \$21** Information Systems
- \$24** Software Engineering

## STUDENTS WORK HERE

Bentley Systems, Inc.	Lockheed Martin
Bristol Myers Squibb	National Board of Medical Examiners
Comcast Corporation	Oracle Primavera
Day & Zimmermann, Inc.	SAP America
Dell	Security Risk Advisors
DXC Technology	Susquehanna International Group LLP
Facebook	UNISYS
Google	

## GO TO STEINBRIGHT AND GET TO WORK

Steinbright's powerful combination of co-op and career services is a Drexel advantage for job placement and beyond.

From the One-Year-Out Alumni Survey, graduating class of 2018:



of CCI graduates are working or enrolled in graduate or professional education.



of CCI co-op participants working full-time had received a job offer from a former co-op employer.

**96%**



of those working full-time were satisfied with their position.

**90%**



of those working full-time were satisfied with the level of responsibility at their position.

Security Risk  
Sample GCI Co-op Employers

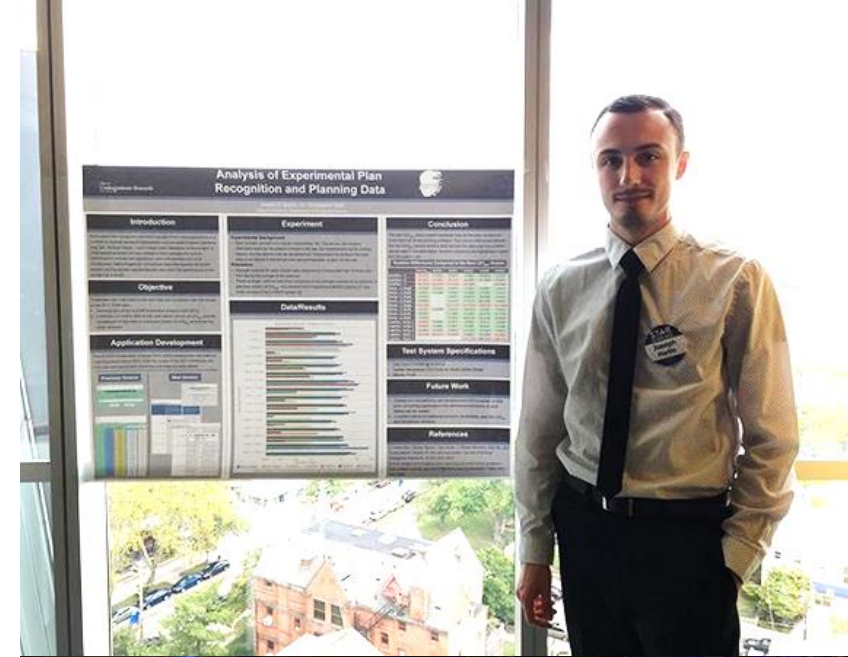


# CCI Community

- Professional Academic Advisors
- Peer Mentor Program
- Cyber Learning Center
- iCommons student lab
- CCI Residential Learning Community
- College social events each term
- Co-op and employer networking events
- Corporate Partners Program

# CCI Student Opportunities

- Co-op Research Opportunities with Faculty
- The STAR (Students Tackling Advanced Research) Scholars Program
- Over 350 Student Organizations, many with Tech Focus, i.e. CyberDragons
- 18 Division 1 Teams
- 30 + Greek Letter Organizations
- Study Abroad





# What's Next?

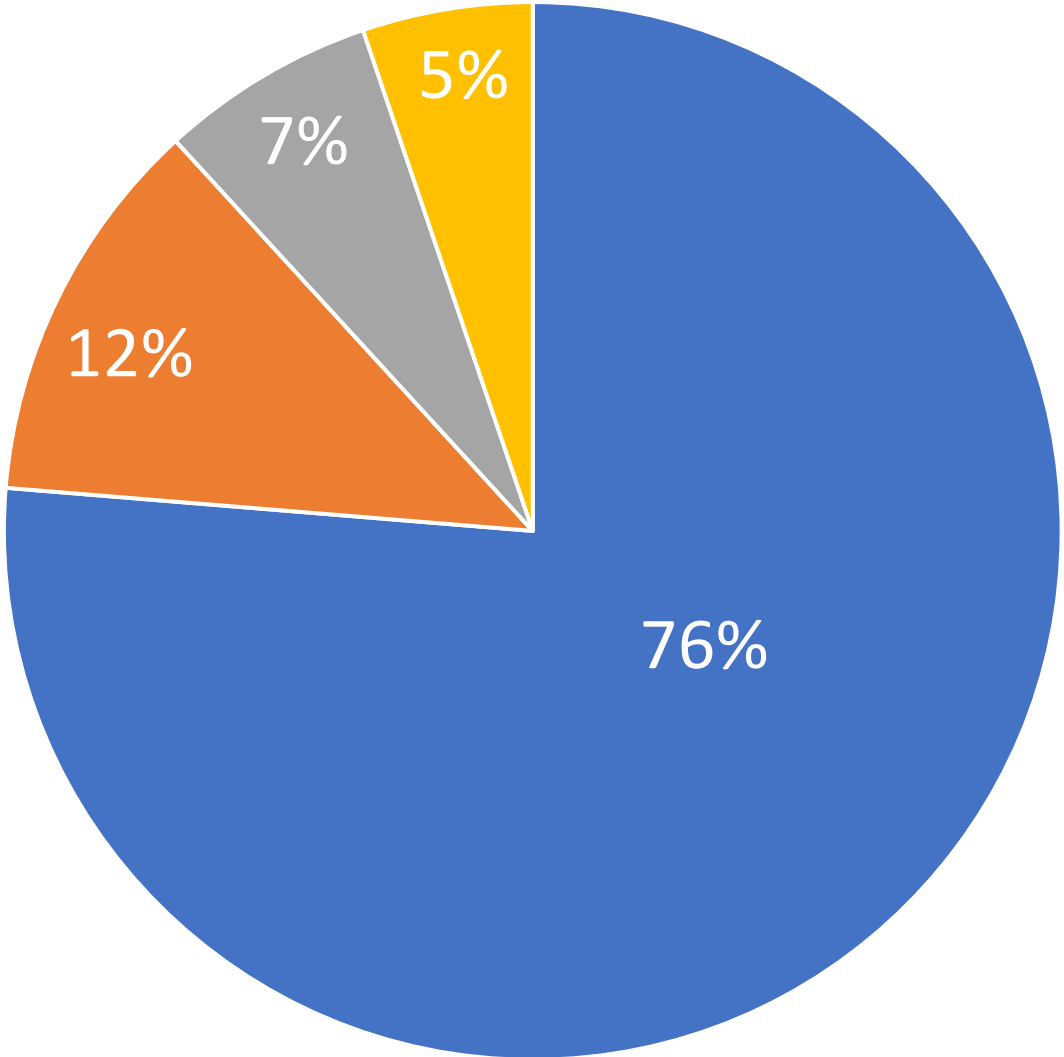
- May 1st: Deadline to confirm enrollment
- Late June/Early July: Complete placement exams
- September: Welcome Week and Move-in (Classes start on September 20<sup>th</sup>)

## In the Meantime...

- Join the CCI Discord (Open to Confirmed Students)
- Connect with the CCI Dean's Ambassadors
- Check out the 3675 Market Virtual Tour
- Virtual Workshops
- CCI Digital Summer Camp
- Admitted Student Campus Tours

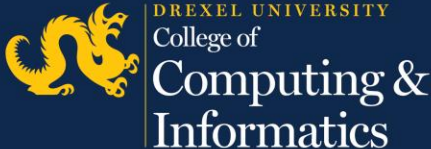


# STEM Job Growth Through 2028



- Computing
- Engineering
- Mathematics
- Natural Sciences

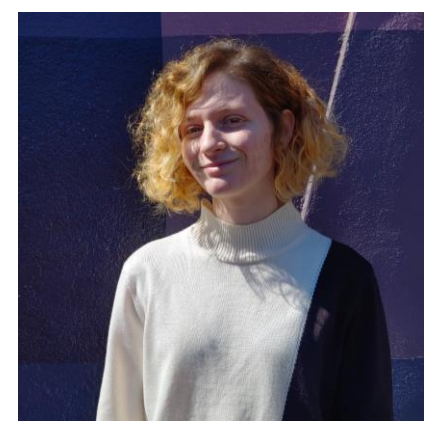
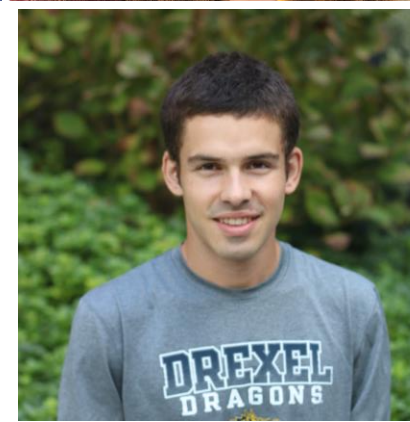
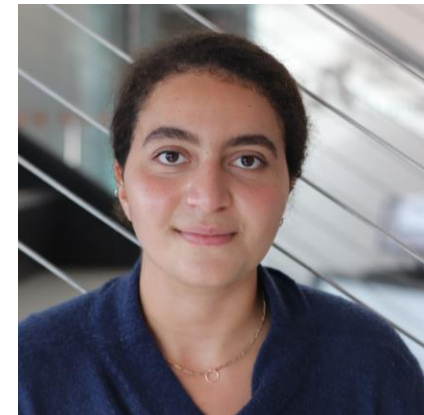
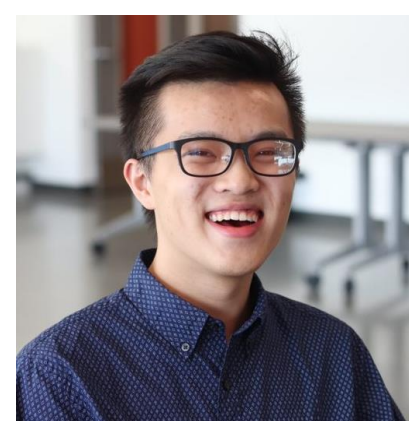
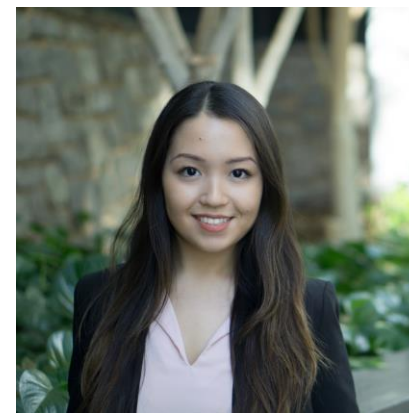
Source: U.S. Bureau of Labor Statistics



# Speak To A Dean's Ambassador Today!

**Visit:**

[drexelcci.info/ugda](https://drexelcci.info/ugda)



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# Connect With Drexel CCI



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[drexelcci.info/linkedin](https://drexelcci.info/linkedin)



[youtube.com/drexelcci](https://youtube.com/drexelcci)



**Matt Lechtenberg**

Director of Recruitment  
[ml333@drexel.edu](mailto:ml333@drexel.edu)



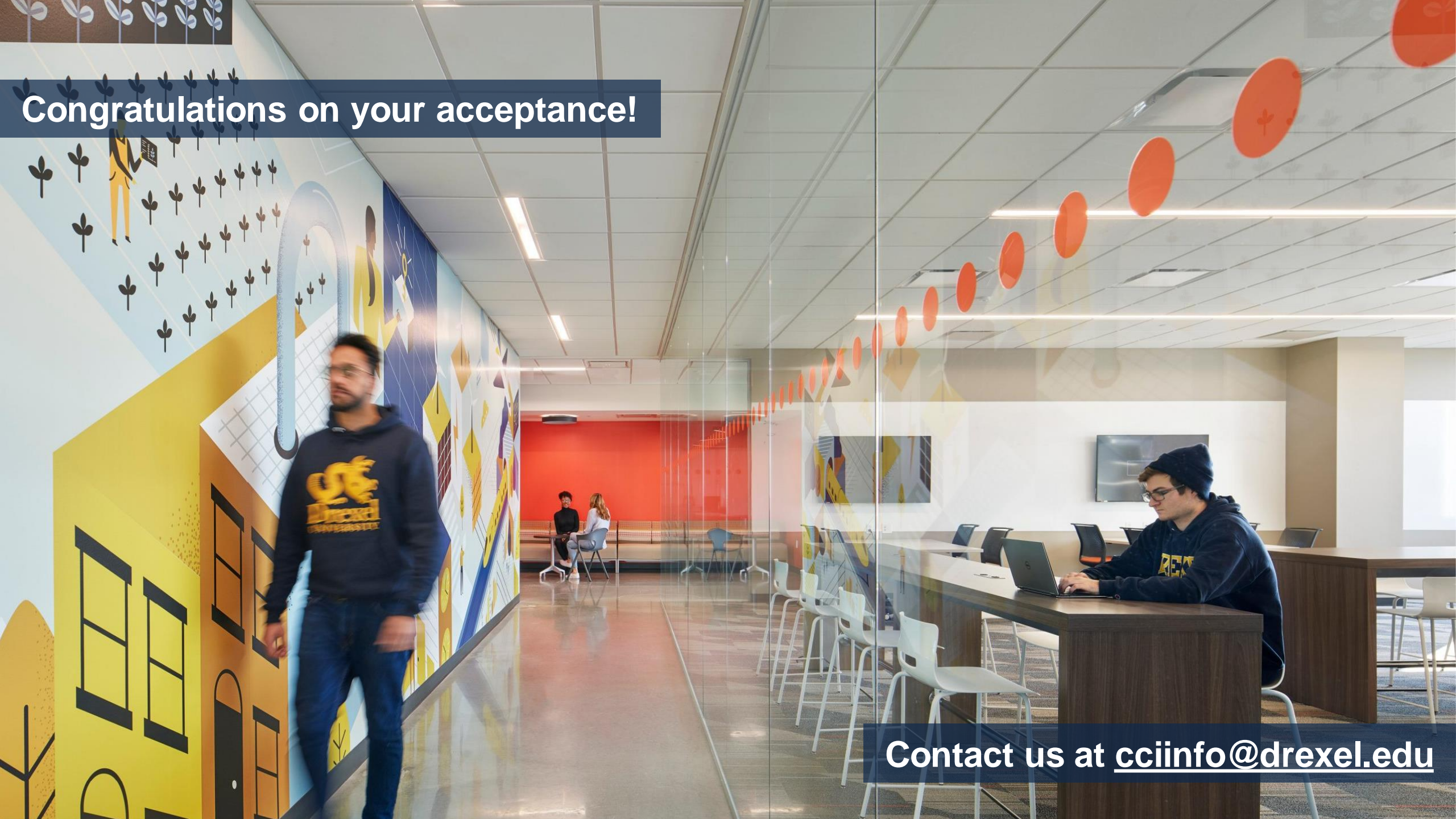
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**Congratulations on your acceptance!**

**Contact us at [cciinfo@drexel.edu](mailto:cciinfo@drexel.edu)**