

# Master of **Engineering in Electrical and Computer Engineering**



# About Duke

Ranked #7 by U.S. News in 2024

Founded in 1838

6,417 Undergraduate Students (fall 2023)

10,423 Graduate and Professional Students (fall 2023)

1,654 Tenure Track Faculty Members

1,033 Full Professors

439 Associate Professors

182 Assistant Professors

8,693 Acres in Size

218 Buildings on Campus (Excludes maintenance and support facilities)

196,108 Alumni

Distinguished Alumni

Richard Nixon

Tim Cook

# About Duke ECE

40 Tenured or Tenure-Track Faculty

217 PhD Students

257 Master's Students

235 Undergraduate Students

#3 in U.S. Faculty Research Productivity in Computer Engineering

#11 in U.S. Faculty Research Productivity in Electrical Engineering

#6 University Worldwide in AI/Machine Learning Research

Sources: Academic Analytics v. 2021, U.S. News & World Report, NeurIPS Publication Index



Duke's Department of Electrical and Computer Engineering is the home of world-class teaching and research, with a focus on the broad areas characteristic of a leading electrical and computer engineering department."



## Hai "Helen" Li, Ph.D

Chair, Duke Electrical & Computer Engineering  
Clare Boothe Luce Professor of Electrical and Computer Engineering, Duke University

# Why ECE @ Duke Kunshan?

Your career transition to computer engineering starts from the ECE program at DKU.

The program facilitates students without any computer engineering background to become a professional computer engineer working for software development or big data analysis, offering a successful career path into the IT industry.

## 1 DUKE DEGREE

Upon completion of degree requirements, students will receive a Duke Master of Engineering (MEng) degree.

## 2 ACCESS TO DUKE UNIVERSITY

Students will have access to Duke resources the entire time they are enrolled. Students are expected to be at "Duke in Durham" during the second year.

## 3 ACCESS TO US JOB MARKET

While students spend their second year at Duke, they are eligible for Optional Practical Training (OPT) in the U.S.

## 4 NETWORKING AND INTERNSHIP OPPORTUNITIES

Students are connected to multinational companies via social events and summer internships, growing their competitiveness in the global job market.

## 5 WORLD-CLASS FACULTY

Faculty members are recruited from top-tier universities around the world and are internationally renowned experts in education and research.

## 6 INTER-DISCIPLINARY CURRICULUM

In addition to engineering, our program offers a series of courses covering industry management and business fundamentals.



Duke Kunshan University is a Sino-American partnership between Duke University, which consistently ranks in the top ten of all American universities, and Wuhan University, named among China's ten best universities by the Chinese University Alumni Association. Through Duke's singular commitment to bringing its best resources and culture of excellence, Duke Kunshan University delivers a Duke education in China."



### Xin Li, Ph.D

Director, Master of Engineering Program in Electrical and Computer Engineering, Duke Kunshan University

Professor of Electrical and Computer Engineering, Duke University

Professor of Electrical and Computer Engineering, Duke Kunshan University

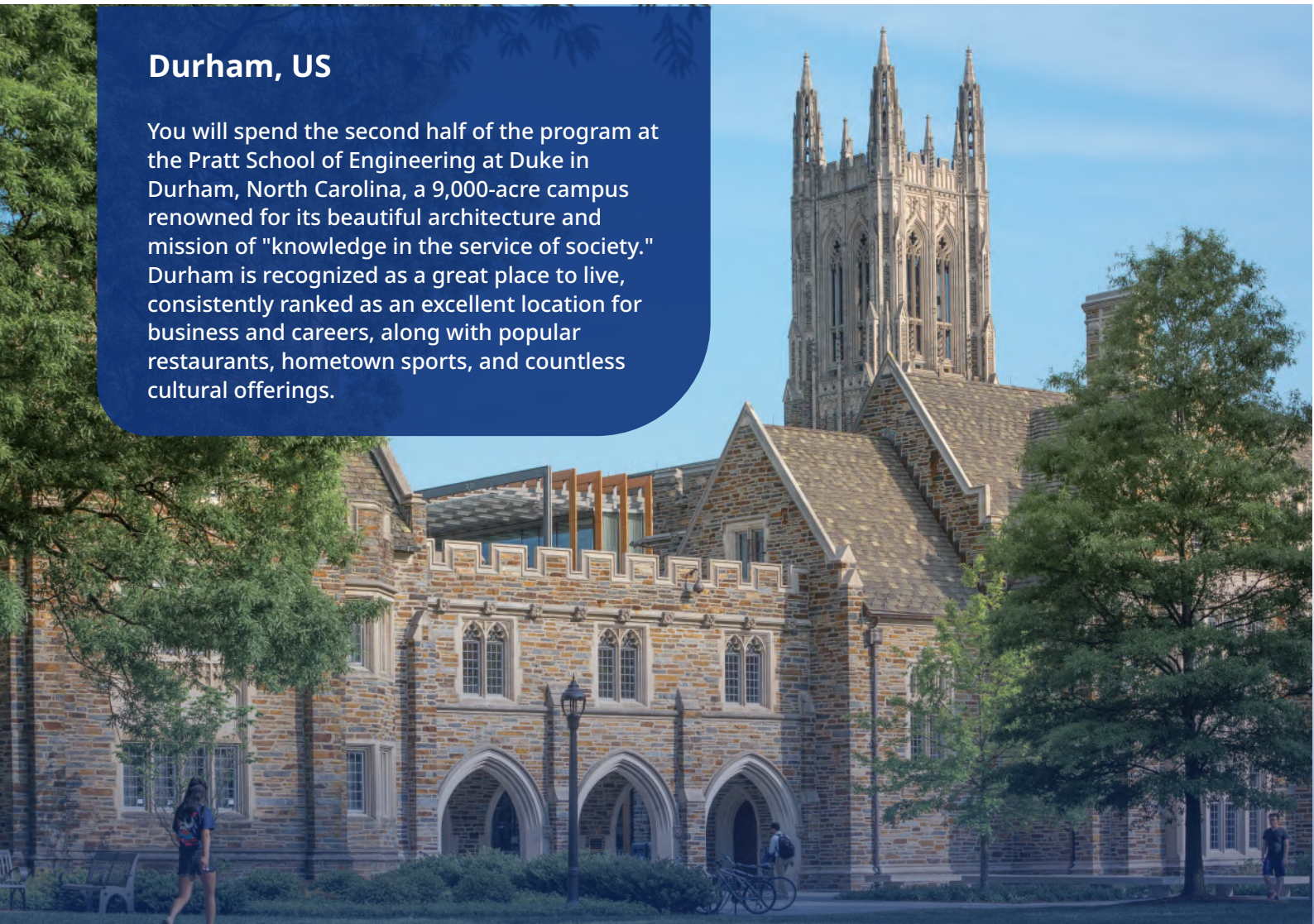
# Two Superb Locations

## Kunshan, China

You will begin the ECE Master of Engineering (MEng) program at the Institute of Applied Physical Sciences and Engineering (iAPSE) of Duke Kunshan University (DKU). Kunshan lies in the heart of the Yangtze River Delta region, one of the most developed areas in China, with close proximity to Shanghai and Suzhou - only 20 minutes away by high-speed train. Well recognized as a successful model for China's social and economic development, Kunshan has attracted a number of Fortune 500 companies and other leading enterprises.

## Durham, US

You will spend the second half of the program at the Pratt School of Engineering at Duke in Durham, North Carolina, a 9,000-acre campus renowned for its beautiful architecture and mission of "knowledge in the service of society." Durham is recognized as a great place to live, consistently ranked as an excellent location for business and careers, along with popular restaurants, hometown sports, and countless cultural offerings.



# Curriculum

Two Tracks are Offered in the Duke Kunshan MEng ECE Program

	SOFTWARE ENGINEERING	MACHINE LEARNING/BIG DATA
YEAR 1	<b>4 Technical Courses</b> <ul style="list-style-type: none"> <li>Programming, Data Structures, and Algorithms in C++</li> <li>Fundamentals of Computer Systems and Engineering</li> <li>Systems Programming and Engineering</li> <li>Software Engineering</li> </ul>	<b>4 Technical Courses</b> <ul style="list-style-type: none"> <li>Programming and Data Structure for Machine Learning</li> <li>Mathematics for Machine Learning</li> <li>Practical Machine Learning</li> <li>Deep Learning</li> </ul>
	<b>Language and Professional Training Courses</b>	<b>Language and Professional Training Courses</b>
	<b>ECE Masters Success Seminar</b>	<b>ECE Masters Success Seminar</b>
	<b>Summer Internship in China</b>	<b>Summer Internship in China</b>
YEAR 2	<b>Summer Internship Evaluation</b>	<b>Summer Internship Evaluation</b>
	<b>Choose 4 Technical Electives (Incomplete List)</b> <ul style="list-style-type: none"> <li>Compiler Construction</li> <li>Probability for Electrical and Computer Engineers</li> <li>Human-Centered Computing</li> <li>Mobile Application Development</li> <li>Edge Computing</li> </ul>	<b>Choose 4 Technical Electives (Incomplete List)</b> <ul style="list-style-type: none"> <li>Signal Detection &amp; Extraction Theory</li> <li>Image and Video Processing</li> <li>Advanced Computer Network</li> <li>Performance Optimization &amp; Parallelism</li> <li>Theory &amp; Practice of Algorithms</li> </ul>
	<b>2 Industry Preparatory Courses</b> <ul style="list-style-type: none"> <li>Management of High-Tech Industries</li> <li>Business Fundamentals for Engineers</li> </ul>	<b>2 Industry Preparatory Courses</b> <ul style="list-style-type: none"> <li>Management of High-Tech Industries</li> <li>Business Fundamentals for Engineers</li> </ul>
	<b>Language and Professional Training Courses</b>	<b>Language and Professional Training Courses</b>

\* Listed courses are for reference only

## Durham MEng Program vs Kunshan MEng Program for PRC Students

	Durham MEng Program	Kunshan MEng Program
YEAR 1	Course work (US) Tuition: ~\$66K per year	Course work (China) Tuition: ~\$30K per year
YEAR 2	Course work (US) OPT (US) Tuition: ~\$43K per year	Course work (US) OPT (US) Tuition: ~\$66K per year

\* The details of estimated tuition and fees can be check at: <https://iapse.dukekunshan.edu.cn/cost-of-attendance/>

# Career Outcomes

## INTERNSHIPS IN CHINA

OUR STUDENTS RECEIVED INTERNSHIP OFFERS FROM

Microsoft

Amazon

Alibaba

Baidu

Siemens

Cisco

Didi

Dell

eBay

Ctrip

Bosch

Intel

OPPO

Lenovo

NVIDIA

RedHat

SAP

Tencent

JD

Zoom

Bytedance

HSBC

Ant Group

Meituan

RICOH

Philips

\*Incomplete list

## JOBS AFTER GRADUATION

97% of 2023 DKU MEng of ECE graduates secured full-time employment or pursued further education within 6 months of graduation.

Meta (Facebook)

Google

Microsoft

Amazon

Adobe

Bosch

Samsung

Intel

Bloomberg

Zoom

TikTok

Dell

Oracle

SAP

# Application

## APPLICATION REQUIREMENTS

- Statement of Purpose
- Resume/CV
- 3 Letters of Recommendation
- Transcripts
- GRE Score-optional (TBD)
- TOEFL or IELTS or Duolingo Scores
- Video Introduction

## CURRENT STUDENT PROFILE

Average GPA

3.7

Average TOEFL

102



## DEADLINES

### Early Admission Deadline

**December 15, 2024**

Applications submitted by this date will receive priority consideration for admission and scholarships.

### Priority Admission Deadline

**January 15, 2025**

Applications submitted by this date are guaranteed review. After this date, applications will continue to be accepted and considered on a space-available basis.

All applications must be submitted through our online application portal.

Duke | PRATT SCHOOL of  
ENGINEERING

Duke | ELECTRICAL & COMPUTER  
ENGINEERING



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and Computer Engineering



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