MASTER OF ENGINEERING IN ELECTRICAL AND COMPUTER ENGINEERING

Kunshan China & Durham, US
**WHY ECE @ DUKE KUNSHAN?**

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

**ACCESS TO DUKE UNIVERSITY:**
Students are expected to be at Duke University during the second year, with full access to Duke resources.

**ACCESS TO US JOB MARKET:**
While students spend their second year at Duke, they are eligible for Optional Practical Training (OPT) in US.

**NETWORKING AND INTERNSHIP OPPORTUNITIES:**
Students are connected to multi-national companies via social events and summer internship, growing competitiveness on global job market.

**WORLD-CLASS FACULTY:**
Faculty members are recruited from top-tier universities around the world and are internationally renowned experts of education and research.

**INTERDISCIPLINARY CURRICULUM:**
In addition to engineering courses, 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 bring its best resources and culture of excellence, Duke Kunshan delivers a Duke education in the global center that is China today.

Xin Li, Ph.D., IEEE Fellow
Professor, Electrical and Computer Engineering, Duke
Professor, Electrical and Computer Engineering, DKU
Director, Master of Engineering Program in ECE, DKU
Director, Institute of Applied Physical Sciences and Engineering, DKU
Director, Data Science Research Center, DKU
You will begin the DKU ECE Master of Engineering (MEng) program at the Institute of Applied Physical Sciences and Engineering (iAPSE) in Kunshan. 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—just 20 minutes away by high-speed train. Widely considered as a successful model for China’s social and economic development, Kunshan has attracted a number of Fortune 500 companies and other leading enterprises.

You will spend the second half of the program at 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 service to society. Durham is recognized as a great place to live, consistently ranked as an excellent location for business and careers, along with first-rate restaurants, hometown sports, and countless cultural offerings.
FOCUS AREA: SOFTWARE DEVELOPMENT

Core:
- Fundamentals of Computer Systems and Engineering
- C++ Programming, Data Structures and Algorithms
- Systems Programming and Engineering
- Software Engineering

Electives (Incomplete List):
- Compiler Construction
- Operating Systems
- Computer Networks and Distributed Systems
- Mobile Application Development
- Cloud Computing

Industry Preparatory Courses:
- Management of High Tech Industries
- Business Fundamentals for Engineers

FOCUS AREA: BIG DATA ANALYSIS

Core:
- C++ Programming, Data Structures and Algorithms
- Random Signals and Noise
- Vector Space Methods with Applications
- Pattern Classification and Recognition Technology

Electives (Incomplete List):
- Deep learning
- Bayesian Methods and Modern Statistics
- Digital Signal Processing
- Computer Vision
- Textual Data Acquisition and Analysis

Industry Preparatory Courses:
- Management of High Tech Industries
- Business Fundamentals for Engineers

PROGRAM AT A GLANCE

<table>
<thead>
<tr>
<th>First Year (Duke Kunshan University, China)</th>
<th>Second Year (Duke University, US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 technical courses</td>
<td>4 technical courses</td>
</tr>
<tr>
<td>Language and professional training courses</td>
<td>Language and professional training courses</td>
</tr>
<tr>
<td>Summer internship</td>
<td>2 industry preparatory courses</td>
</tr>
</tbody>
</table>

DUKE MENG PROGRAM vs. DKU MENG PROGRAM

<table>
<thead>
<tr>
<th>Year</th>
<th>Duke MEng Program</th>
<th>DKU MEng Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course work (US)</td>
<td>Course work (China)</td>
</tr>
<tr>
<td></td>
<td>Tuition: ~$50K per year</td>
<td>Tuition: ~$25K per year</td>
</tr>
<tr>
<td>2</td>
<td>Course work (US)</td>
<td>Course work (US)</td>
</tr>
<tr>
<td></td>
<td>OPT (US)</td>
<td>OPT (US)</td>
</tr>
<tr>
<td></td>
<td>Tuition: ~$50K per year</td>
<td>Tuition: ~$50K per year</td>
</tr>
</tbody>
</table>
Graduates of the master's programs at Duke ECE received an average annual salary of $107,729 in 2017.
Deadline

All applications must be submitted through our online application portal. The deadline for applications is January 15, 2019. We will review the applications and make admission decisions in spring 2019.

More information:
https://dukekunshan.edu.cn/en/academics/ece/admissions/how-to-apply

APPLICATION

Admission Requirements

› Completed Online Application
› GRE Score
› Transcripts
› Essays & Short Answer Questions
› Resume
› Letters of Recommendation
› TOEFL or IELTS Score

Admission Profile

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average GRE</td>
<td>325</td>
</tr>
<tr>
<td>Average GPA</td>
<td>3.6</td>
</tr>
<tr>
<td>Minimal TOEFL</td>
<td>90</td>
</tr>
<tr>
<td>Minimal IELTS</td>
<td>7.0</td>
</tr>
</tbody>
</table>
About Duke:

- Ranked #9 by US News in 2018
- Founded in 1838 with endowment $7.9B (2017)
- 6,532 undergraduate students
- 8,660 graduate and professional students
- Tuition: $53,780 per year
- 1670 tenure-track faculty members
  - 988 full professors
  - 454 associate professors
  - 228 assistant professors
- 35.17 km² in size
- 256 buildings on campus
- 167,848 alumni
- Distinguished alumni:
  - Richard Nixon
  - Tim Cook
  - Melinda Gates

About Duke ECE:

- 32 tenure-track faculty
- $212 million research grant (FY 2017)
- 161 PhD students
- 83 Master students
- 217 undergraduate students
- #1 in U.S. faculty research productivity in computer engineering and #8 in electrical engineering
- Top 10 best school for engineering majors by salary potential
- #17 computer engineering graduate program

“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.”

Krishnendu Chakrabarty
Chair, Electrical and Computer Engineering
William H. Younger Professor of Engineering