



Duke's AI Master of Engineering

Duke's program is recognized as one of the top applied AI/ML graduate programs in the world

Our Master of Engineering in Artificial Intelligence for Product Innovation students develop strong technical skills in AI and machine learning coupled with a deep understanding of how to design and build AI-powered software products.

Graduates go on [to work in leading companies \(https://ai.meng.duke.edu/why-duke/graduate-outcomes\)](https://ai.meng.duke.edu/why-duke/graduate-outcomes) solving challenging problems across many industries—including tech, healthcare, energy, retail, transportation, and finance. Some of our students go on to found their own entrepreneurial ventures.

At Duke, you'll learn to:

- Design and develop machine learning systems for scale, security and usability
- Apply traditional machine learning and deep learning models to solve challenging problems across domains
- Build full-stack software applications integrating machine learning models utilizing the latest methods and technologies
- Design and deploy software applications in production

This program may be for you if you have an educational or work background in engineering, science or technology and aspire to a career working hands-on in AI. See our [application requirements \(https://ai.meng.duke.edu/apply\)](https://ai.meng.duke.edu/apply) for details.



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ARTIFICIAL INTELLIGENCE MASTER of ENGINEERING



- [Curriculum Schedules](#)
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INDUSTRY-CONNECTED CURRICULUM

This degree's [core curriculum](#) was developed in collaboration with the industry.

- **Build a personal portfolio** of real-world, hands-on AI and machine-learning projects
- **Receive individual advising**, academic and career, from outstanding, world-class faculty
- **Be engaged with peers** from around the world as part of a small, intimate, and immersive cohort

We prepare graduates who are ready to solve problems on the job, starting on Day 1.

Our curriculum covers the theory and application of AI and machine learning, heavily emphasizing hands-on learning via real-world problems and projects in each course.

Students also have two opportunities to work directly with industry leaders during the program: through the semester-long [industry project](#) (<https://ai.meng.duke.edu/courses#capstone>) and their summer internship.

FLEXIBILITY AND OPTIONS

12 or 16 months on-campus or 24 months online

Innovative and immersive, you can complete this Duke master's degree in 12 or 16 months on-campus, or online part-time in just 24 months.

12-Month Accelerated Option

Significantly more affordable than a traditional master's program—in this option, pay tuition for only two (2) full semesters plus three (3) summer session credits.



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ARTIFICIAL INTELLIGENCE
MASTER of ENGINEERING

4+1: BSE+Master's Option for Duke Undergraduates

[Duke undergraduate students](#) can complete undergrad *and* this master's degree in just five (5) years.

Scholarship opportunity: The AI 4+1 BSE+Master's scholarship covers 20 percent of the costs. Eligibility and other conditions apply.

MD+MEng in Artificial Intelligence Dual Degree

Medical students at Duke can complete this degree during their third year. See [Duke MEDx website](#) (<http://medx.duke.edu/education/programs>) and [School of Medicine bulletin](#) (<https://medicine.bulletins.duke.edu/som-programs/dr/md#dual-degree-programs1>) for details.

Scholarship opportunity: The MD+MEng AI scholarship covers 20 percent of the costs. Eligibility and other conditions apply.

CURRICULUM SCHEDULES

The core of the curriculum follows a cohort-based course sequence

On-Campus Accelerated Option: 12 Months

Summer	Fall	Spring
<i>Pre-requisite</i> AIPI 503: Python & Data Science Math Bootcamp (/courses#pre-program).	AIPI 510: Sourcing Data for Analytics (/courses#technical-core).	MENG 540: Management of High-tech Industries (/courses#manager-core).
	AIPI 520: Modeling Process & Algorithms (/courses#technical-core).	AIPI 540: Deep Learning Applications (/courses#technical-core).



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	(/courses#management-core)	(/courses#electives)
AIPI 501: Industry Seminar Series	(/courses#operations-core)	Technical Elective 2 (/courses#electives)
EGR 590: Career Strategy & Design		

On-Campus Standard Track: 16 Months

Summer	Fall 1	Spring	Summer
Pre-requisite— AIPI 503: Python & Data Science Math Bootcamp (/courses#pre-program)	AIPI 510: Sourcing Data for Analytics (/courses#technical-core)	AIPI 540: Deep Learning Applications (/courses#technical-core)	AIPI 560: Legal, & Ethical Implic AI (/courses#op-core)
	AIPI 520: Modeling Process & Algorithms (/courses#technical-core)	AIPI 549: Industry Capstone Project (/courses#capstone)	AIPI 561: Operation (MLOps) (/courses#op-core)
	MENG 570: Business Fundamentals for Engineers (/courses#management-core)	MENG 540: Management of High-Tech Industries (/courses#management-core)	Industry Intern: Project
	AIPI 501: Industry Seminar Series (/courses#operations-core)	Technical Elective 1 (/courses#electives)	
	EGR 590: Career Strategy & Design		

Part-Time Online: 24 Months

Pre-Program	Year 1
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Science Math Bootcamp (/courses#pre-program)	Sourcing Data for Analytics (/courses#technical-core)	Algorithms (/courses#technical-core)	Applications (/courses#tec-core)
	MENG 570: Business Fundamentals for Engineers (/courses#management-core)	MENG 540: Management of High-Tech Industries (/courses#management-core)	
	AIPI 501: Industry Seminar Series (/courses#operations-core)	On-Campus Residency	

Year 2		
Fall	Spring	Summe
AIPI Departmental Elective (https://ai.meng.duke.edu/courses#electives)	AIPI 549: Industry Capstone Project (/courses#capstone)	AIPI 560: Societal Implications (/courses#societal-implications)
Technical Elective 1 (/courses#electives)	Technical Elective 2 (/courses#electives)	AIPI 561: Operational AI (MLC) (/courses#operational-ai)
	On-Campus Residency	



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- Summer Online Python & Data Science Math Boot Camp [More » \(/courses#pre-program\)](#).

10 Courses

- Four (4) **Technical AI/ML courses**—a strong technical foundation
- Three (3) **Product Development courses**—developed with Duke's Law School and Fuqua School of Business including the business, legal & ethical aspects of AI products
- Three (3) **Technical electives**—specialize in preparation for your chosen career

[Browse course descriptions » \(/courses\)](#).

2 Industry Experiences

- **Industry project**—design a solution to an authentic opportunity offered by a sponsoring organization
- **A summer internship or industry project**—gain industry experience

[More » \(/courses#capstone\)](#).

Additional Requirements

- Learn from leaders building AI products during regular industry seminars
- Jump-start your professional development with our Career Strategy and Design workshop for **on-campus** students
- Meet peers and faculty during two (2) required residencies on the Duke campus for **online** students

*The choice of **online or on-campus** is up to you—all students take the same courses, learn from the same faculty, and earn the same Duke degree.*

COMPARE ONLINE AND ON-CAMPUS



Science Math Boot Camp	<ul style="list-style-type: none"> • Online 4-week part-time 	<ul style="list-style-type: none"> • Online 4-week part-time
Class Experience	<ul style="list-style-type: none"> • Live and recorded classes • Online interaction with faculty and peers 	<ul style="list-style-type: none"> • Class attendance at Duke • In-person and online interaction with faculty and peers
Professional Development	<ul style="list-style-type: none"> • Two spring residences on-campus at Duke • Industry seminar series 	<ul style="list-style-type: none"> • Industry seminar series
Academic Advising	<ul style="list-style-type: none"> • Online interaction with a faculty advisor • In-person interaction during on-campus residencies 	<ul style="list-style-type: none"> • In-person and online interaction with a faculty advisor
Career Services & Professional Development	<ul style="list-style-type: none"> • Support from career services professionals (/why-duke/career-services) specialized in assisting engineering master's students 	<ul style="list-style-type: none"> • Support from career services professionals (/why-duke/career-services) specialized in assisting engineering master's students • 6-week Career Strategy and Design workshop

COST OF ATTENDANCE & MORE DETAILS

Campus Master's Program



Online Master's Program



Online Graduate Certificate Program



Financial Aid





First Name*

Last Name*

Email Address*

Program Option*

SUBMIT »