

LIVING MACHINES

Cross-Departmental

Interdisciplinary

Hands-on

Project-centric

Toward your dreams

Engineer biotech innovations! Apply engineering principles and concepts to problems in the Life and Medical Sciences.

In the New Engineering Education Transformation (NEET) **Living Machines (LM) thread**, you will have the opportunity to **work on disruptive research areas** united by a theme of improving our understanding of and developing therapies for human disease, such as:

BIOTECHNOLOGY FOR ENVIRONMENTAL ENGINEERING

COMPUTATIONAL BIOLOGY

IMMUNE, CANCER, + INFECTION ENGINEERING

MICROFLUIDIC DEVICE ENGINEERING

SYNTHETIC BIOLOGY + BIOMANUFACTURING

TISSUE ENGINEERING



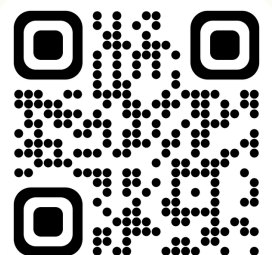
LM LEAD INSTRUCTOR

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LM FACULTY LEAD

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LM Founding Faculty Lead,
NEET Associate Director
MIT School of Engineering

LEARN MORE



THREAD REQUIREMENTS

Earn a certificate in your chosen thread!

20.051 INTRODUCTION TO LIVING MACHINES (6 UNITS)

CHOOSE TWO SUBJECTS (ONE UNDERLINED, ONE ITALIC) FROM ONE OF SIX LIVING MACHINES TRACKS:

Biotechnology for Environmental Engineering

- Choose ONE: 10.28 (10.28 A&B), 10.29, 20.129/6.129, 20.109, 20.106/1.084, 7.21, 12.004, or 7.30/1.018/12.031
- Choose ONE: 2.180, 20.305/6.580, 1.089, 1.063, 1.088, 7.26, or 12.007

Computational Biology

- Choose one: 20.260, 6.3900, or 20.390/6.8711
- Choose one: 20.320, 2.180, or 20.334

Immune, Cancer + Infection Engineering

- Choose ONE: 20.230/7.23, 1.088, 7.21, or 20.106/1.084
- Choose ONE: 20.365, 7.24, 7.26, 1.063, 7.36, or 7.371

Microfluidic Device Engineering

- Choose one: 2.793/20.330/6.4830, 10.301, 2.005, 2.674, 1.060, 1.066/8.292/12.330, or 1.063
- Choose one: 2.676, 20.334, or 6.2600/3.155

Synthetic Biology + Biomanufacturing

- Choose ONE: 10.28 (10.28 A&B), 10.29, 20.129/6.4880, or 20.109
- Choose ONE: 2.180/6.027, 10.321, 10.345, 20.305/6.580, 7.36, 7.38, 7.46, 10.03/7.458, or 10.442

Tissue Engineering

- Choose one: 2.793/20.230/6.4830, or 20.310/2.797/6.4840/3.053
- Choose one: 20.375, 20.363/3.055, 7.46, 6.4820/2.792/HST.542, or 2.787/HST.535

RESEARCH IMMERSION

Internship, Two-semester UROP + 20.054, Thesis or iGEM

INTELLECTUAL DIVERSITY REQUIREMENT (IDR)

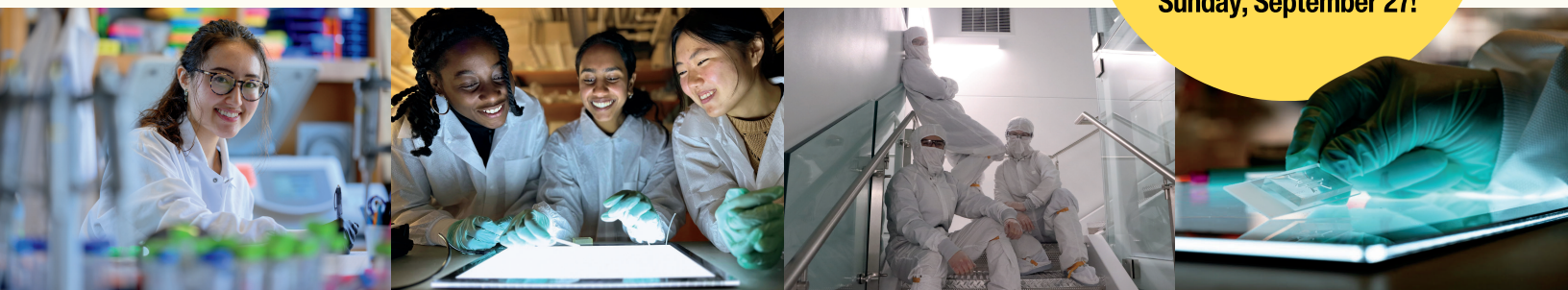
A core subject from outside of your major.

ATTEND LIVING MACHINES ACTIVITIES + TALKS

SOPHOMORES eligible
to APPLY NOW at

neet.mit.edu

by 11:59 PM,
Sunday, September 27!



Follow the action on Instagram at @mit_neet!