

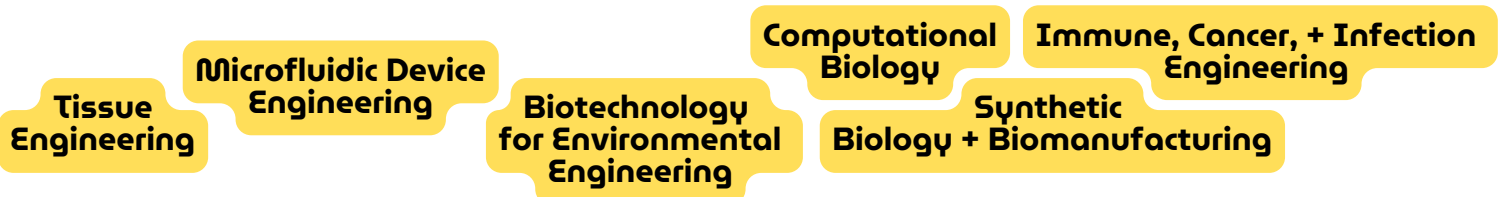
# LIVING MACHINES

*Learning + Collaborating Across Disciplines*

## NEET Living Machines

Do you want to apply engineering principles and concepts to problems in the life and medical sciences through various biotechnology innovations?

In the New Engineering Education Transformation (NEET) Living Machines (LM) thread, you will work on disruptive research areas, united by the goal of improving our understanding of and development of therapies for human disease. NEET LM scholars choose from one of six tracks:



*NEET is a three-year, experiential learning certificate program (sophomore through senior year) that you complete along with your major in the usual four years. All NEET scholars gain exclusive access to the NEET Scholars Collaboration Space (3-001) and other unique opportunities and benefits.*



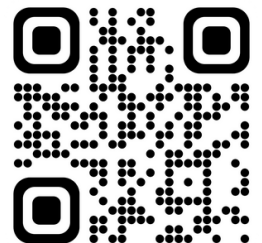
**Dr. Mehdi Salek**

msalek@mit.edu

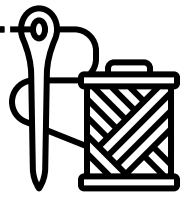
LM Lead Instructor, Lecturer  
NEET, MIT School of Engineering



**LEARN MORE**



# LM Thread Requirements



## 20.051 | Introduction to NEET Living Machines (6 units)

### Choose 2 Subjects From 1 of the 6 Living Machines Tracks

#### 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

#### 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

#### 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

#### 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

#### 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

#### Computational Biology

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

### Intellectual Diversity Requirement (IDR)

A core subject from outside of your major.

### Living Machines Activities + Seminars

### 20.054 | NEET Living Machines Research Immersion

20.054 | NEET Living Machines Research Immersion + UROP (two semesters), internship, senior thesis, or iGEM.

#### Professor Linda Griffith

griff@mit.edu

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

