Report to the President Academic Year Ending June 30, 2025, School of Engineering & the Dean's Office

Dean's Office, School of Engineering

The MIT School of Engineering (SoE)'s mission is to educate the next generation of engineering leaders, to create new knowledge, and to serve society. We are dedicated to creating an environment that fosters the advancement of knowledge, education of students, and addressing today's most pressing challenges. With the Institute's values in mind, we spearhead projects that enhance life and learning across a range of impactful efforts — from attracting the most talented engineers, welcoming people from all backgrounds on campus, leading the next revolution in engineering education, to offering varied avenues that inspire students.

There are nine entities of interest within SoE: the Department of Aeronautics and Astronautics (AeroAstro); the Department of Biological Engineering (BE); the Department of Chemical Engineering (ChemE); the Department of Civil and Environmental Engineering (CEE); the Department of Electrical Engineering and Computer Science (EECS); the Department of Materials Science and Engineering (DMSE); the Department of Mechanical Engineering (MechE); the Department of Nuclear Science and Engineering (NSE); and the Institute for Medical Engineering and Science (IMES).

SoE is the largest of the Institute's five schools with roughly 72 percent of undergraduate majors (2,467 out of 3,427 non-first-years) and 47 percent of graduate students (3,435 out of 7,351), with EECS being jointly managed by SoE and the MIT Schwarzman College of Computing (SCC). Over a third of MIT's faculty are in SoE (36 percent or 391 out of 1,090).

The total volume of research expenditures of faculty and staff affiliated with an SoE academic department in FY25 was $495,280,093.

The SoE development team—which reports jointly to the assistant dean for development and the academic department heads—advances philanthropic support for a range of core needs across the school's various departments, labs, centers, and programs. In FY25, SoE achieved its third-highest fundraising total, with $102,809,986 in new gifts and pledges. In addition to raising support for core needs, this year's fundraising supported critical research efforts as well as the establishment of the Hood Pediatric Innovation Hub, a program under the MIT Health and Life Sciences Collaborative which is administered by the Office of Innovation and Strategy.

Administrative Initiatives

New Procedures, Processes, and Policies

The SoE Dean's Office sponsored a staff seminar focused on cultural awareness and intercultural communication, presented by MIT Professional Education Executive Director Bhaskar Pant. The seminar was well attended and extremely well-received. Attendees learned about visible and invisible intercultural

differences that can dramatically impact communication between people of different cultures, as well as tips for minimizing intercultural misunderstandings and enhancing effectiveness when communicating across cultures.

The Staff Advice and Implementation Committee (SAIC) launched several programs in 2025:

- The community building subcommittee continued to partner with the Institute Community and Equity Office (ICEO) to develop and post guidance on the Institute Events' website for planning inclusive and accessible events.
- The Staff Events and Activities grants program awarded new grants to a variety of programs supporting staff connection and wellness, including several groups and clubs for running, walking, lunch, crafting, pottery, meditation, and more.
- The professional development subcommittee launched a staff networking event for all staff across SoE to connect personally and professionally. This subcommittee also launched an event for SoE staff interested in research careers, where panelists from academia and industry discussed their career trajectories and answered audience questions. Both events were very well attended.

Personnel Information

Dean's Office Staff Appointments, Promotions, Departures, and Retirements

- SoE Director of Communications Mary Beth Gallagher was promoted to Executive Director of Communications for SoE and the Office of Innovation and Strategy (OIS) on July 22, 2024.
- Sarah McCullough was hired as Communications Officer for New Engineering Education Transformation (NEET) on August 7, 2024.
- SoE Senior Strategic Engagements Officer Tia Giurleo was promoted to Senior Strategic Engagements Officer for both the SoE and OIS on December 9, 2024.
- Executive Assistant to the Dean Yuvie Cjapi transferred to the Chancellor's Office on March 3, 2025.
- Patti Vaughn was hired as Executive Assistant to the Dean on March 3, 2025.
- Program Administrator Matthew Smith departed his role on March 5, 2025.
- Executive Assistant to the Dean Patricia Vaughn departed her role on June 17, 2025, for a new role outside of MIT.
- Administrative Assistant John Bryan departed his role in NEET on June 21, 2025.

Faculty Leadership Changes and Appointments

- Themis Sapsis (MechE) was appointed interim Associate Department Head (ADH) of MechE, effective September 1, 2024, to June 20, 2025. This was a time-limited appointment while Ellen Roche (MechE/IMES), who had been serving as ADH, was on sabbatical for AY25.
- Alex Shalek (Chemistry/IMES) was appointed Director of IMES, effective August 1, 2024. Alex succeeded Elazer Edelman (IMES).
- Sam Madden (EECS) was appointed Head of the Faculty of Computer Science in EECS, effective August 1, 2024. Sam succeeded Arvind Mithal (EECS), who died June 17, 2024.

- Hamsa Balakrishnan (AeroAstro) was named Associate Dean of Engineering, effective August 1, 2024. Hamsa succeeded Elsa Olivetti (*see below).*
- Elsa Olivetti (DMSE) stepped down as SoE Associate Dean, effective August 31, 2024, to take on the role of a mission director for the decarbonizing energy and industry mission for the Climate Project, effective September 1, 2024.
- Duane Boning (EECS) was appointed Vice Provost for International Activities, effective September 1, 2024.
- Benedetto Marelli (CEE) was appointed as a mission director of the Wild Cards Mission for the Climate Project, effective September 1, 2024.
- Jesse Kroll (CEE) was appointed as a mission co-director of the Restoring the Atmosphere, Protecting the Land, and Oceans Mission for the Climate Project, effective September 1, 2024.
- Jeff Grossman (DMSE) was appointed as Director and a flagship leader of the Tata-MIT Alliance, effective September 1, 2024.
- Karl Berggren (EECS) was appointed as Head of the Faculty of Electrical Engineering in EECS, effective January 16, 2025. Karl succeeded Joel Voldman (EECS).
- Angela Koehler (BE) was appointed as Faculty Director of MIT Health and Life Sciences Collaborative (MIT HEALS), effective February 8, 2025. (*Note: MIT HEALS reports to OIS.*)
- Dave Darmofal (AeroAstro) was appointed Vice Chancellor for Undergraduate and Graduate Education, effective February 12, 2025. Dave succeeded Ian Waitz (AeroAstro), who stepped down as Vice Chancellor on April 30, 2024.
- Kripa Varanasi (MechE) was appointed as Faculty Director of the MIT Deshpande Center for Technological Innovation, effective March 1, 2025. Kripa succeeded Angela Koehler (BE) (*see above).*
- Rohit Karnik (MechE) was appointed as Director of J-WAFS, effective March 1, 2025. Rohit succeeded John Lienhard (MechE) as director.
- Cem Tasan (DMSE) was appointed as Director of the Materials Research Laboratory (MRL), effective March 15, 2025. Cem succeeded Lionel Kimerling (DMSE), who served as interim Director of MRL. (*Note: MRL reports to the Office of the Vice President for Research.*)
- Evelyn Wang (MechE) was appointed as Vice President for Energy and Climate, effective April 1, 2025.
- Chris Love (ChemE) was appointed as Faculty Co-Director of the Leaders for Global Operations (LGO) program, effective May 1, 2025. Chris succeeded Duane Boning (*see above).*
- Anantha Chandrakasan (EECS) stepped down as Dean of SoE, effective June 30, 2025, to serve as MIT's next Provost.

Faculty Promotions

Full Professor

The following engineering faculty were promoted to full professor (*alphabetical by last name*):

- Mohammad Alizadeh (EECS)
- Lydia Bourouiba (CEE)
- Kwanghun Chung (ChemE)

- Ruonan Han (EECS)
- Thomas Heldt (EECS)
- Angela Koehler (BE)
- James LeBeau (DMSE)
- Desirée Plata (CEE)
- Ellen Roche (MechE)
- Michael Short (NSE)

Associate Professor with Tenure

The following engineering faculty were promoted to associate professor with tenure (*alphabetical by last name*):

- Bryan Bryson (BE)
- Connor Coley (ChemE)
- Mohsen Ghaffari (EECS)
- Rafael Gomez-Bombarelli (DMSE)
- Song Han (EECS)
- Kaiming He (EECS)
- Phillip Isola (EECS)
- Mingda Li (NSE)
- Richard Linares (AeroAstro)
- Jonathan Ragan-Kelly (EECS)
- Arvind Satyanarayan (EECS)

Associate Professor without Tenure

The following engineering faculty were promoted to associate professor without tenure (*alphabetical by last name*):

- Faez Ahmed (MechE)
- Henry Corrigan-Gibbs (EECS)
- Ariel Furst (ChemE)
- Dylan Hadfield-Menell (EECS)
- Yoon Kim (EECS)
- Anand Natarajan (EECS)
- Jelena Notaros (EECS)
- Carlos Portela (MechE)
- Negar Reiskarimian (EECS)
- Tess Smidt (EECS)
- Vivishek Sudhir (MechE)
- Cesar Terrer (CEE)

Senior Research Scientist

While not considered faculty at MIT, the following individuals were promoted from Principal Research Scientist to Senior Research Scientist:

- Raymond Speth (AeroAstro)

Professor of the Practice

The following individuals were appointed as Professor of the Practice:

- David Barrett (MechE)

Adjunct Professor

The following individuals were appointed as Adjunct Professor:

- George Tynan (NSE)

Associate Professor of the Practice

There were no appointments as associate professor of the practice this year.

New Faculty Retirements or Changed Status to Emeritus/a

The following engineering faculty members announced their transition to professor post-tenure or emeritus/a this year (*alphabetical by last name*):

- Paul Barton (ChemE)
- Wai Cheng (MechE)
- Clark Colton (ChemE)
- David Hardt (MechE)
- John Lienhard (MechE)
- Peter Szolovitz (EECS)
- Cardinal Warde (EECS)

New Faculty Hires/Appointments

The following individuals were offered and accepted a faculty position in MIT SoE for FY25, although this is not reflective of their start date (*alphabetical by last name*):

- Andrew Akerson (MechE)
- Zhiliang Bai (BE)
- Jas Brooks (EECS – CS)
- Jake Hecla (NSE)
- Sophia Henneberg (NSE)
- Zac Manchester (AeroAstro)
- Dean Price (NSE)
- Thomas Rose (DMSE)
- Tania Lopez Silva (DMSE)
- Eric Sun (BE)

- Haoning Tang (MechE)
- Shaolou Wei (DMSE)
- Kyra Yap (ChemE)
- Hengyun “Harry” Zhou (EECS – EE)

Educational Activities

Undergraduate Enrollment

Table 1. Undergraduate student enrollment in SoE by department for AY25.

Department Name	Shorthand	Number of Students Enrolled
Aeronautics and Astronautics	AeroAstro	143
Biological Engineering	BE	113
Chemical Engineering	ChemE	130
Civil and Environmental Engineering	CEE	29
Computer Science and Electrical Engineering	EECS	1,542
Materials Science and Engineering	DMSE	61
Mechanical Engineering	MechE	420
Nuclear Science and Engineering	NSE	29
School of Engineering	SoE	**2,467**

Graduate Enrollment

Table 2. Graduate student enrollment in SoE by department for AY25.

Department Name	Shorthand	Number of Students Enrolled
Aeronautics and Astronautics	AeroAstro	273
Biological Engineering	BE	143
Chemical Engineering	ChemE	254
Civil and Environmental Engineering	CEE	122
Computer Science and Electrical Engineering	EECS	1,216
Materials Science and Engineering	DMSE	200
Mechanical Engineering	MechE	474
Nuclear Science and Engineering	NSE	129
Institute of Medical Engineering and Science	IMES	304
Non-Department-Associated Programs (Advanced Study Program, Program in Computational and Systems Biology, Engineering Management, Supply Chain Management Program)		320
School of Engineering	SoE	**3,435**

Postdoctoral Programs

MIT-Novo Nordisk Artificial Intelligence Postdoctoral Fellows Program

The MIT-Novo Nordisk Artificial Intelligence Postdoctoral Fellows Program (MIT-Novo) is a collaborative program from MIT and Novo Nordisk that sits at the intersection of artificial intelligence (AI), data science, and life science. For AY25, there were 10 fellows in the cohort.

MIT Postdoctoral Fellowship Program for Engineering Excellence

The MIT Postdoctoral Fellowship Program for Engineering Excellence (PFPFEE) is a program that supports postdoctoral researchers across a variety of fields to push the boundaries of their discoveries. By enabling top minds with financial support and resources, the program's fellows are shaping their sciences through innovation, collaboration, and real-world impact. Cohort 3 for 2024 to 2026 has 17 fellows.

Strategic Initiatives

MIT Climate and Sustainability Consortium

The MIT Climate and Sustainability Consortium (MCSC) is a collaborative effort between MIT and 14 member companies where academia and industry work together to accelerate the implementation of large-scale, real-world solutions to help meet global climate and sustainability challenges. Below are some highlights from the last year:

- **Research Funding:** Through its 2024 Seed Awards program, MCSC provided over $1 million to fund nine one-year projects led by principal investigators across MIT's schools and SCC. Winning projects represent emerging solutions with promise for rapid scalability in addressing climate and sustainability issues across a variety of sectors, from agriculture and architecture to employing AI in mechanical recycling systems.
- **Tools:** MCSC released an interactive global material and energy flows tool representing the current global economy's major material and energy flows – allowing users to explore scale and visualize connections between sectors in the world economy. MCSC's Geo-TIDE tool, which helps trucking industry stakeholders and fleet owners make data-driven decisions about decarbonizing their fleets, experienced new technical updates and was piloted with industry collaborators.
- **Technologies Launched:** Pixelframe, an MCSC-funded innovative building reuse technology, was showcased to a global community at the 2025 Architecture Biennale.
- **Postdoctoral Impact Fellows:** MCSC funded 10 postdoctoral Impact Fellows, with a range of expertise that supports MCSC's impact pathways.
- **Publications:** MCSC released 12 publications, including a mix of journal articles, conference papers, and white papers.
- **Education:** Through the MCSC Scholars Program, MCSC supported 18 undergraduate students as they conducted yearlong, interdisciplinary climate and sustainability research projects.
- **Programming:** MCSC's annual symposium in November 2024 brought together 140 attendees from across MIT and industry. MCSC also hosted 12 seminars and workshops, bringing together member companies and researchers to collaborate on a range of topics across MCSC focus areas.

MIT-Royalty Pharma Faculty Founder Initiative (formerly the MIT Faculty Founder Initiative)

The MIT-Royalty Pharma Faculty Founder Initiative is a program that aims to increase the number of female biotech founders who emerge from faculty. By offering financial, professional, and mentorship resources, the initiative empowers faculty members to bring high-impact technologies to the world that are not currently being commercialized.

Major News from the Most Recent Competition

Major news from the most recent prize competition includes the following:

- In May 2025, we concluded the 2023–2024 MIT-Royalty Pharma Prize Competition, our second competition cycle. Operated in collaboration with Brown University, this two-year entrepreneurship program supported 12 faculty members with stipends, top-tier mentorship, hands-on workshops, and extensive networking opportunities.
- As part of the program, we organized a "VC Blitz," where participating faculty met individually with eight leading venture capitalists to build relationships and lay the groundwork for future fundraising.
- Royalty Pharma, a prior donor, has committed to funding the next four years (i.e., two competition cycles). In recognition of their continued support, the program has been officially renamed from the MIT Faculty Founder Initiative to the MIT-Royal Pharma Faculty Founder Initiative.

Program Impact

Notable milestones achieved by initiative alumni between July 01, 2024, and June 30, 2025, include:

- Ariel Furst (ChemE) launched her fourth startup.
- Jessica Stark's (BE) startup raised $30M in seed funding.
- Polina Anikeeva's (DMSE) startup raised $5M in seed funding.
- Anne Carpenter (Broad) incorporated her company, secured incubator space, formed an advisory board, and raised seed capital.

To date, the initiative has:

- Supported 21 faculty in their commercialization journeys
- Created 14 spinouts
- Raised over $65 million in non-dilutive funding via initiative alumni startups

SoE Tool Fund

In the fall of 2024, the School of Engineering Dean's Office, with support from the Engineering Council, funded $1.2 million for a new Research Tool and Equipment Support Seed Grant. In the program's pilot year, sixteen proposals were awarded up to $100K in support of physical research equipment. The funds covered (but were not limited to) physical equipment, hardware, installation of equipment, service contracts, or staff time associated with major equipment use.

Entrepreneurship, Leadership, and Innovation Activities

Undergraduate Practice Opportunities Program

The Undergraduate Practice Opportunities Program (UPOP) is a year-long program for sophomores to develop the relevant and critical professional skills to thrive in an industry, academic, or research career.

For AY25, 222 students applied to UPOP and 193 were formally registered/enrolled. Of those 193, 119 students completed the full-year program, resulting in a 62 percent retention rate.

Gordon-MIT Engineering Leadership Program

The Gordon-MIT Engineering Leadership program (GEL) is a program that educates sophomores and junior undergraduates to develop them into technical leaders who are equipped to address complex, real-world engineering challenges through experiential learning and theoretical coursework. In May 2025, 93 GELs earned their program completion certificate. During the application season in fall 2024 for AY26, the program received 268 total applications – the most since the program's inception in 2008. To add perspective, 24 percent of SoE's sophomores applied to GEL, along with nearly 50 students from Wellesley College.

Daniel J. Riccio Graduate Engineering Leadership Program

The Daniel J. Riccio Graduate Engineering Leadership program (GradEL) is a program that develops graduate students into technical leaders who are efficient, effective, and successful in their professional careers through coursework and experiential workshops. In AY25, GradEL educated around 200 students combined between courses and workshops. A total of 47 students earned a graduate certificate in technical leadership.

MIT School of Engineering Communication Lab

The MIT School of Engineering Communication Lab (MIT Comm Lab) is a discipline-specific peer-coaching program for SoE that helps students and postdocs with their scientific writing, speaking, and visual design. In AY25, the MIT Comm Lab had 1,992 appointments across 630 unique clients.

Engineering Entrepreneurship Certificate Program

The Engineering Entrepreneurship Certificate Program is a program that provides undergraduate students the opportunity to explore entrepreneurship and leadership with limited modifications to their existing course of study. By adding coursework, co-curricular activities, and immersion into the MIT entrepreneurship ecosystem, students gain a diverse set of skills to make them better entrepreneurial leaders. In AY25, 33 students joined the program, making the number of active students in the certificate program 108. Twelve students graduated the program this year.

Office of Innovation

The Office of Innovation (iHQ) has been sunsetted. This report will contain information about its closure.

Major Events and Event-Related Revenue Data

- In FY25, there were approximately 72 events hosted in the Hacker Reactor, with the split between event ownership being 53 MIT internal, 7 external, and 12 unknowns.
- On June 11, 2025, the PWC catalyst event "European Innovation Spotlight" had 100 attendees.
- The space saw a growth in internal events from 2024 to 2025. It is no longer offered for external events.
- In 2024 across all event types, there were a total of 34 events. In 2025 across all event types, there were a total of 38 events.

Building Operations

While the Office of Innovation is closing, many groups still maintain office/residency in Building E38:

- MIT Sandbox Innovation Fund Program
- MIT Kuo Sharper Center for Prosperity and Entrepreneurship
- Deshpande Center for Technological Innovation
- Venture Mentoring Service
- MIT I-Corps New England
- PKG Ideas Lab
- Mission Innovation X
- Proto Ventures

With the sunsetting of the program, the day-to-day building management and operations of iHQ are now overseen directly by the SoE Dean's Office. Gregory Soloviev continues to function as the facilities manager and now oversees iHQ events and Voxel Lab operations. Signage in the building has been updated to remove all references to the old Office of Innovation name, replacing it with the generic iHQ logo and name. Transition of responsibility has been communicated with internal departments, labs, centers, and institutes (DLCIs), as well as student users in emails and newsletters.

Voxel Lab

The Voxel Lab is a prototyping space that offers tools for creative work available to members of the MIT community, including a makerspace, an audio-visual production suite, and a recording and production studio. In the last academic year, 431 unique students were members of the Voxel Lab. Roughly 63% of all students came from the School of Engineering (SoE).

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