



AMERICAN
TECHNION
SOCIETY

TECHNION GLOBAL IMPACT

The Technion is committed to making the world a better place, contributing life-saving medicine and tackling global issues in environment, energy, and water. Programs like t-hub (Technion Entrepreneurship and Innovation Center), the budding Mehoudar Center for Inventors, and Technion DRIVE Accelerator promote entrepreneurial thinking and provide industry mentorship and funding to help students move from academia to commercialization.

- Translating cutting-edge science into commercial technologies strengthens Israel and benefits people worldwide. The Technion's T3 (Technion Technology Transfer) sets up 15 new startups per year and has more than 150 spinoffs valued at more than \$23 billion.
- Companies founded by Technion graduates attract \$2.5 billion in venture capital annual, according to the Technion President's Report 2023. Additional data from Tracxn puts the number of Technion-alumni founded companies at 1,075.
- The engineering force that built Iron Dome was made up largely of Technion graduates, and 80% of the engineers working today on the technology are Technion alumni.
- 10 Technion researchers were awarded prestigious European Research Council (ERC) Grants in 2023. They include:
 - Asst. Prof. Assaf Zinger and Prof. Avi Schroeder – Wolfson Faculty of Chemical Engineering
 - Asst. Prof. Yuval Shagam, and Profs. Nadav Amdursky, Graham de Ruiter – Schulich Faculty of Chemistry
 - Asst. Prof. Charlotte Vogt – a member of the Stewart and Lynda Resnick Sustainability Center for Catalysis
 - Asst. Prof. Hila Pelg – The Henry and Marilyn Taub Faculty of Computer Science
 - Asst. Prof. Ben Engelhard and Prof. Asya Rolls – The Ruth and Bruce Rappaport Faculty of Medicine
 - Prof. Meytal Landau – Faculty of Biology
- Responding to global concerns for food security: Professor Marcelle Machluf launched startup Meatafora to grow meat directly from animal cells, and Prof. Shulamit Levenberg co-founded Israel-based Aleph Farms, which became the first company in the world to receive approval to market its 3D-printed lab-grown ribeye steak.

Repairing the World:

- Asst. Prof. Dana Solav created an orthotic device with an Israeli physician to help Neta Portal, injured on October 7, learn to walk again
- Ph.D. student Dean Zadok has invented a prosthetic hand adept enough at fine motor movements to play piano
- Prof. Alon Wolf and Technion students work with nonprofit Haifa 3D to customize 3D-printed prosthetic hands with superheroes and other characters for children in need
- Prof. Hossam Haick is developing a skin patch to detect tuberculosis, funded by the Bill & Melinda Gates Foundation

International Rankings Attest to the Technion's Role as a Leading Scientific Institution

- In 2023, the Technion had 48 patents approved in the U.S., making it the leading university in Europe for the number of patents granted.
- In 2023, the Technion moved up in the prestigious Shanghai Ranking to place 79th among the world's top 100 universities
- In 2022, the Technion ranked #1 in Europe in the field of artificial intelligence for the second consecutive year, and #16 worldwide in the CS Rankings
- The Technion ranked #22 in aerospace engineering worldwide in the 2022 Shanghai Rankings
- The Technion also ranked #15 in PitchBook's 2022 list of universities with an exceptional track record of producing entrepreneurs

Collaborations and Partnering Around the World

- Pharmaceutical giant Pfizer Inc. continues to work with Technion Professor Shai Shen-Orr's CytoReason to fast-track drugs to the marketplace and to fund other research projects
- The Technion continues to have far reaching relationships with companies, institutions, and cities including agreements and partnerships with Google, Israel Aerospace Industries, and Intel, and is helping combat climate change in its collaborations with Doral Energy Tech-Ventures and SolarEdge Technologies
- In 2023, the Technion partnered with the Israel Innovation Institute's PLANETTech to help move scientific breakthroughs for fighting climate change into applications
- In 2023, Israel's Ministry of Economy and Industry partnered with the Technion in an initiative to enhance research and development of manufacturing plants across Israel
- In 2023, presidents and chancellors from Historically Black Colleges and Universities (HBCUs) in the U.S. visited the Technion to assess potential partnerships
- High-tech powerhouses have strategically set up operations near the Technion campus including: Google, IBM, Intel, Motorola, Qualcomm, Apple, Microsoft, Yahoo!, Hewlett-Packard, Amazon, and U.S. computer software services giant PTC. In 2022, the Carasso Family and Carasso Motors established the Carasso FoodTech Innovation Center on campus to serve as a hub for Israeli foodtech startups
- The Technion welcomes some 8,000 visitors yearly, including faculty members at leading universities and research centers worldwide, prospective students, prominent

- business and university officials, and foreign government ministers including high-level delegations from the Middle East and the Persian Gulf, following the Abraham Accords
- The Technion more than 200 academic collaboration agreements with universities in 41 countries, including a partnership with Carnegie Mellon University to advance AI and robotics
 - Mortimer B. Zuckerman, philanthropist and champion of Israel, launched the Zuckerman STEM Leadership Program in 2016 to foster international exchange and set the stage for future collaboration. To date, some 271 Zuckerman scholars from the U.S., Israel, and Canada have participated in the program, and are making significant discoveries, publishing in high impact journals, and receiving grants, awards, and patents. In 2023 alone, Zuckerman Scholars published in 130 journals. The Zuckerman Faculty Program has facilitated the return of Israeli scientists to Israel, establishing 44 new labs within the Technion and seven other universities.
 - Of all the Technion research partnerships in the U.S. and abroad, the one that speaks volumes about the Technion's stature is its collaboration with Cornell University to create Cornell Tech, an applied science educational institution in New York City. At the very heart of this initiative is the Joan & Irwin Jacobs Technion-Cornell Institute, which offers a dual master's degree from both universities, and the Runway Startup Postdoc Program. Celebrating its 11th year, now nearly 70 master's students are graduating yearly, and the Runway Program has created more than 30 new companies.
 - The third cohort of students graduated from Guangdong Technion - Israel Institute of Technology (GTIIT) in 2023. GTIIT was inaugurated in December 2017, becoming the first Israeli university in China. The historic collaboration between the Technion and Shantou University is intended to be a bridge between Israel's entrepreneurial spirit and China's scale and resources. This partnership is clear evidence of the Technion's burgeoning global influence, and is viewed by many as part of the broader movement of globalization now sweeping the academic world.

Promoting a Diverse Environment

The Technion is advancing diversity in Israel's tech arena, drawing faculty and students from every corner of the globe. The mix generates a vigorous diversity of people, ideas, and programs.

- Half of incoming undergraduates for 2023-24 are women
- To accommodate the increasing number of female students and faculty, the University recently installed a total of 18 nursing rooms across campus
- President Uri Sivan created the new position of Vice President for Diversity and Inclusion, appointing Professor Adi Salzberg
- On January 1, 2024, Prof. Daniella Raveh became the first-ever female dean of the Technion Faculty of Aerospace Engineering
- The percentage of Arab Israeli students mirrors the general population of Israel
- The Technion has pre-university programs aimed at helping both the ultra-Orthodox and promising students from Israel's underserved neighborhoods attain the academic skills they need for admission to the Technion

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