



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, the Technion Entrepreneurship and Innovation Center, and Technion DRIVE Accelerator promote entrepreneurial thinking and provide industry mentorship and funding to help students move from academia to commercialization.

- Pharmaceutical giant Pfizer, responsible for one of the most successful COVID-19 vaccines, has partnered with Prof. Shai Shen-Orr's startup CytoReason to fast-track drugs to the marketplace.
- Prof. Alon Wolf, Technion students, and nonprofit Haifa 3D are customizing **colorful 3D-printed hands** with superheroes and other characters for children in need.
- Cultured meat startup **Aleph Farms** is using technology developed by Prof. Shulamit Levenberg to create the first-ever 3D-printed ribeye steak from beef cells in the lab, without harm to animals or the environment.
- Prof. Hossam Haick is developing a **skin patch to detect tuberculosis**, which still affects 10 million people yearly, with funding from the Bill & Melinda Gates Foundation.
- Diagnostic Robotics, co-founded by Prof. Moshe Shoham and alumni Dr. Kira Radinsky and Yonatan Amir, started collaborating in July 2020 with the Mayo Clinic to implement its AI-driven prediction and digital triage platform at the hospital's Rochester, Minn. campus.
- High-tech powerhouses have strategically set up operations near the Technion campus including: Google, IBM, Intel, Motorola, Qualcomm, Apple, Microsoft, Yahoo!, Hewlett-Packard and Amazon. And in May 2021, the U.S. computer software services giant PTC announced it would establish an R&D center on campus to further advanced manufacturing, while investing \$5 million in the university.

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

- The Technion tied for #10th place worldwide in five areas of computer science, including artificial intelligence, computer vision, and machine learning, in CS Rankings 2020.

- The Technion ranked #16 in aerospace engineering worldwide in the prestigious 2020 Shanghai Rankings.
- Named the world's leading academic institution in digital education in a 2017 survey by Times Higher Education, the Technion was ranked #1 in preparing students to take top positions in the digital revolution. The only U.S. academic institute to crack the top ten was MIT, which came in at #6
- The Technion also ranked #14 in PitchBook's 2018-2019 list of the top 50 schools that have spawned the most VC-backed entrepreneurs for the second consecutive year

Partnering Around the World

- The Technion welcomes 8,000 visitors yearly, including faculty members at leading universities and research centers worldwide, foreign government ministers, prospective students and prominent business and university officials
- The Technion has approximately 215 academic collaboration agreements with universities in 41 countries. This year, the Technion partnered with Carnegie Mellon University to advance AI and robotics.
- The Technion has far reaching memorandums of agreement with companies, institutions, and cities including: Hyundai Motors (to develop future mobility technology), the New York Genome Center (for research in life sciences), and the City of Chicago (to find solutions to global water challenges)
- In 2016, Mortimer B. Zuckerman, philanthropist and champion of Israel, launched the Zuckerman STEM Leadership Program to foster international exchange and set the stage for future collaboration. To date, some 219 Zuckerman scholars from the U.S., Israel, and Canada are making significant discoveries, publishing in high impact journals, and receiving grants, awards, and patents.
- 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 10th year, now nearly 70 master's students are graduating yearly, and the Runway Program has created more than 30 new companies.
- The Guangdong Technion Israel Institute of Technology (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.

- One of the most diverse classes in Technion history received their Ph.D. diplomas in May 2021. Marking a Technion milestone, approximately 43% of the 199 new graduates were women.
- 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. In spring 2021, , Dr. Yehuda Sabiner finished medical school at the Technion to become Israel's first ultra-Orthodox doctor without a secular primary school education.

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