# ONE PAGER TRDF

The Technion – Israel Institute of Technology brings the vast scientific and technological knowledge accumulated at this educational institute to knowledge-intensive industries in Israel and around the world. These industries translate research into advanced developments that benefit of all humanity.

The Technion’s primary role is to conduct research and lead collaborations with the business community to open windows of opportunity for advancing science and engineering.

Research management includes multiple aspects: legal (including intellectual property), financial, human capital, and more.

We at the Technion also believe that it is the institute’s role to assist in expanding and consolidating knowledge among its graduates and senior professional workers in diverse industries in the labor market. To this end, every year the Department for Continuing Studies and Study Abroad offers training and enrichment programs with high-quality curricula for thousands of engineers, physicians, and individuals working in a broad spectrum of professions.

**Highlights:**

* A recently established a “war room” simulating cyberwarfare, designed to train the next generation of cyber warriors and defenders.
* The Israeli Institute of Metals operates one of the world’s most advanced metal 3D printers. This has enabled development of titanium implants, which were successfully implanted in a cancer patient, and an implant designed for dogs that have lost the ability to walk due to tumors.
* 753 active patent families.
* 133 new patent applications filed.
* $11M translational research to industry.
* Exit 1: Mazor Robotics, Ltd. was acquired for $1.6 billion. This company, which develops robotic systems for back and brain surgery, was established by Prof. Moshe Shoham of the Technion’s mechanical engineering department.
* Exit 2: Sealantis, which develops medical sealants produced from algae-based adhesive materials designed to prevent leakage after surgical procedures. Established at the Faculty of Chemical Engineering by Prof. Havazelet Bianco-Peled, Sealantis was sold in 2019 to Advanced Medical Solutions (AMS) for tens of millions of dollars.
* The first comprehensive program in the field of medical cannabis was developed at the Technion campuses in Haifa, Tel Aviv, and Jerusalem.
* Since its establishment in the 1950s, thousands of people have been part of the Technion family, including men and women from all of Israel’s population sectors, ethnicities, and religions. This employment diversity stems from the awareness and belief that the workplace can serve as a step towards a moral, diverse, and just society.

The Technion Institute’s seven departments ensure that it is a leading institute for research and development management:

**Research Authority**: Promotes and regulates research activities at the Technion by providing most of the means and resources necessary for researchers to carry out their work. This is accomplished by locating funding sources for new research, leading collaborations with academia and industries around the world to maximize opportunities for researchers, budget management, financial support, and more.

**Legal Department**: Provides legal advice on a wide range of issues for faculty, staff, and the various departments at the Technion. The legal department is responsible for handling all legal issues related to intellectual property created by Technion researchers.

**Business Department:** Responsible for the commercial development of technologies and patents originating at the Technion. This department oversees the process from the research stage through patent registration, business development, and commercial development, in order to leverage the intellectual property assets developed at the Technion and to create breakthrough innovations that are widely accessible.

Success stories include: Azilect, a drug used to treat Parkinson’s disease, developed at the Technion in collaboration with Teva Pharmaceutical Industries; InVision Biometrics, which developed a face recognition system and was acquired by Intel Corporation; Mazor Robotics, and Sealantis (described above).

**Department of Finance and Economics:** The economic core, linking the Technion Institute’s departments and faculty members and the various relevant authorities. The department is responsible for registering and monitoring vital financial information, adhering to legal provisions, and overseeing the institution’s policies and board of directors.

**Department for Continuing Studies and Study Abroad:** This broad department of the Technion Institute specializes in organizing and developing curricula for graduates of higher education institutions in the fields of science and engineering as well as senior professional staff in various branches of administration. Program development, done in collaboration with various branches of modern technological industries, enables training that will secure students’ place in the first line of production and development in the economy.

**Institute of Metals:** Promotes technological and scientific innovation, development, and implementation of new technologies and innovative production processes in metals and other advanced materials. The Institute has five specialized laboratories for: 3D printing; corrosion and surface treatment; casting technology; metallurgy and powder technology; and automotive and mechanical engineering.

**Human Resources Department**: Responsible for recruiting and supporting employees at the Technion Institute. The HR department promotes a culture of excellence in the organization, helps researchers recruit professional and skilled staff members, develops training programs, promotes employee welfare, and more.