Orientation Day for New Faculty

Excellence in Research at the Technion

Prof. Wayne D. Kaplan
Executive Vice President for Research
Executive Vice President for Research

- Responsible for academic issues related to research at the Technion. This includes coordinating research contracts with funding agencies and industry, developing new collaborative research agreements, management of donations for research, and ethics in research.

- Serves as CEO of the Technion Research & Development Foundation Ltd. (TRDF) [המוסד], where all funded research is managed within the frame work of the Research Authority [רשות המחקר], IP is patented and licensed via the Technion Technology Transfer (T3) office, industrial service units are managed (e.g. the Metals Institute), Continuing Education is managed, and TRDF Human Resources is managed.

- Responsible for hiring new immigrant scientists.
The Research Process

The Idea

Initial Research (Internal Funding)

Funded Research Program (External Funding)

Scientific Publications

Technology Transfer

Ethics in Science

Conflicts of Interests in Research

IP Transfer Rules
Ethics Committees

Committee for Ethics in Human Clinical Experimentation
Prof. Ofer Nativ
Chairman, Medicine
04-835-9523 | ofer.nativ@b-zion.org.il


Behavioral Sciences Research Ethics Committee
Assoc. Prof. Miriam Barak
Chairman, Education in Science and Technology
04-829-3883 | bmiriam@technion.ac.il

Link: http://manlam.net.technion.ac.il/en/behavioral-sciences-research-ethics-committee/

Inspection Committee on the Constitution of the Animal Experimentation
Assoc. Prof. Yoram Gutfreund
Chairman, Medicine
04-829-5438 | yoramg@tx.technion.ac.il

Link: http://manlam.net.technion.ac.il/en/inspection-committee-on-the-constitution-of-the-animal-experimentation/

Internal Review Committee for Research Using Biohazard Agents
Prof. Anath Fischer
Deputy EVPR, Chairman, Mechanical Engineering
04-829-3260 | meranath@technion.ac.il

Link: http://manlam.net.technion.ac.il/en/internal-review-committee-for-research-using-biohazard-agents/
### Competitive Research Funds

<table>
<thead>
<tr>
<th>Organization</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFSP</td>
<td>カラム 및 헬스케어 빈스, 이스라엘</td>
</tr>
<tr>
<td>IFT</td>
<td>האגודת הישראלית לקורנות מחקר ופיתוח</td>
</tr>
<tr>
<td>ICRF</td>
<td>הקרן לחקר הסטריא, ישראל</td>
</tr>
<tr>
<td>ISF</td>
<td>הקרן האולימית למדע</td>
</tr>
<tr>
<td>EC and EU</td>
<td>مشروع המלגה והשכונת הגלובלית</td>
</tr>
<tr>
<td>NIH</td>
<td>הبط,&quot;פ הלקלי, ארה&quot;ב-ישראל</td>
</tr>
<tr>
<td>BARD</td>
<td>קרן הדו-לאומית למדע, ארה&quot;ב-ישראל</td>
</tr>
<tr>
<td>GIF</td>
<td>קרן למתקי, הפקורים ומילוי, גרמניה-ישראל</td>
</tr>
<tr>
<td>DFG</td>
<td>קרן הגרמני למקרא</td>
</tr>
<tr>
<td>DIP</td>
<td>פריקסימ, מוש굽יס-ישראל</td>
</tr>
<tr>
<td>BSF</td>
<td>קריון הדו-לאומית למדע, ארה&quot;ב-ישראל</td>
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*רשימה באתר המנל melhor*
Assistance for New Faculty

Submission via the Technion by new faculty during their first year on campus to competitive sources (e.g. ISF) will result in an internal grant of $5,000 from the President’s Fund, and $1,000 for each subsequent submission, up to a maximum of $7,000.

In the second and third year, submission to competitive sources will result in an internal grant of $2,000 for the first submission, and $1,000 for an additional submission, up to a maximum of $3,000.
An Important Management Issue!

パート מנהלי חשוב!

- Internal and external funding requires the submission of a registration form (Tofes Manlam) via the Technion Portal at: https://portal.Technion.ac.il/irj/portal

- Since January 2014, paper submissions are **not** accepted (don’t waste trees on administration).

- Assistance for this process:
  Tami Armon, Tel: 4861, tami@trdf.Technion.ac.il OR
  Alina Katzav, Tel: 2255, katzav@Technion.ac.il
Government and Public Sources
מקורות ממשלתיים וציבוריים

- Ministry of Finance
- Ministry of Defense
- Ministry of Transportation
- Ministry of Environment
- Ministry of Health
- Ministry of Housing and Construction
- And more...
מסלולי מג"ג - מחה גורי טכנולוגי

(Consortium of Industry & Academia)

לפיתוח טכנולוגיות גנריות. תואר שירות פעולות פיתוח טכנולוגי. תכנית המשמשת לפיתוח
במסגרת, מאמזת שירות פעולות פיתוח עם אמצעי התיאור התכניות של 3-1 שנה
לשלמות העידן. הקבוצה מתלכדת סכין חוף שלוש, הגדרת הטכנולוגיות הנדרשות
לframim, זוהי העדויות הטכנולוגיות והכנת תכניות עבידה נתמאות לתחבורות עלייה.

מגנטון

- תכנית המתבססת על שירות פעולות "משטרת ה"מגנטון" הנה
  עידוד העברת טכנולוגיות מאקדêmeיה לחברות
- הפעילות המתבססת ב_PRIORITY "מגנטון" נמצאת השלב וחוזה התקנות טכנולוגיות בלב
  בשבייה לחוב שביתת הינוולק לקדמות ע maçאות טכנולוגיות ו量产יה מצור (שימוץ
  המסגרת מתקינה את חותם למסגרת ולחותם למסגרת ולחותם למסגרת
 Hebrew text
Horizon 2020 total funding for 7 years: 80 B EURO

Technion submissions to date: 738 (from 2014 to 2020)

101 (14%) successful submissions, of which:

- 58 EU Research Grants
- 44 ERC Grants
  - 16 to ERC Starting Grants
  - 6 to ERC Consolidator Grants
  - 6 to Advanced Grants
  - 1 to Synergy Grant
  - 15 to ERC POC Grants

Total approved funding so far: ~73 M EURO
ERC - Assistance

- Assistance in writing and presentation;
- Assistance in preparation for the interview stage (held in Brussels);
- Anything else you need to prepare and submit an ERC.

ERC Bonus
Within the framework of the Technion’s policy of supporting competitive research, special internal research grants will be provided to those faculty who submitted proposals to the ERC but were rejected (although they received a high score).

These faculty will receive an internal grant ranging from $5,000-$25,000 (depending on the field and internal resources).
## Interdisciplinary Technion Research Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nanotechnology</td>
<td>Prof. Gadi Eisenstein, Electrical Engineering</td>
</tr>
<tr>
<td>Life Sciences and Engineering</td>
<td>Prof. Roy Kishony, Biology</td>
</tr>
<tr>
<td>Energy</td>
<td>Prof. Yoed Tsur, Chemical Engineering</td>
</tr>
<tr>
<td>Autonomous Systems</td>
<td>Dist. Prof. Daniel Weihs, Aerospace Engineering</td>
</tr>
<tr>
<td>Computer Engineering Center</td>
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</tr>
<tr>
<td>Technion Cyber Security Research Center</td>
<td>Prof. Eli Biham, Computer Science</td>
</tr>
<tr>
<td>The Helen Diller Quantum Center</td>
<td>Prof. Gadi Eisenstein, Electrical Engineering</td>
</tr>
<tr>
<td>Artificial Intelligence</td>
<td>Prof. Shie Mannor, Electrical Engineering</td>
</tr>
</tbody>
</table>

Next:  
- Additive Manufacturing  
- Recycling & Environment  
- Neural Science
Research Prizes

The Daniel Shiran Memorial Research Prize
$3,000 research grant

Hershel Rich Technion Innovation Awards
6 research grants - $5,000 each
$1,200 for each academic department

Uzi & Michal Halevy Award for Innovative Applied Engineering
$5,000 research grant

Juludan Research Prize Fund (all Univ. may submit candidates)
2 research grants - $2,500 each
2 personal awards - $2,500 each

Alexander Goldberg Research Prize Fund
$3,000 personal award

Ray & Miriam Klein Research Prize Fund
$3,000 research grant
$3,000 personal award

David Dodi Ben-Aharon Research Fund
$3,000 research grant
$2,500 personal award

New calls for proposals announced Nov. 2018, pls see EVPR web site.
Brand New (Hot out of the oven) Donation Research Web Platform

- New platform to consolidate brief research proposals to be presented to donors and industrial partners.

- The concept is to provide every faculty member the opportunity to receive philanthropic funding to support research at the Technion, and to attract funded research projects from major international industry.

- A web-site and supporting program have been developed where Technion faculty upload a short research proposal and supporting information.

- The research proposals are not published, but rather our society staff people will use the data base (together with a search routine) to help match potential donors with faculty.

- For industrial partners, a point of contact (POC) from each industrial partner will be appointed and have access to the proposals.
Some Industry - Funded Research

- Intel
- IBM
- TOWER Semiconductor Ltd.
- Applied Materials
- Microsoft
- Johnson & Johnson
- TEVA
- Rafael
- Elbit Systems Ltd.
- IAI
- GM
The IP bylaws of the Technion were established in 1999.

These bylaws cover all employees of the Technion, graduate students of the Technion, and non-Technion employees who participate in research conducted at the Technion.

The IP bylaws cover any “invention”, defined as any idea and/or scientific (including engineering, technology, medical, biological, chemical) knowledge, including algorithms, programs, hardware, material, equation, and information which can lend to the invention or its improvement.

The inventor must disclose the invention as soon as possible after its discovery, to the TRDF Patent Office, and before disclosing or publishing it to a third party.

The TRDF Patent Office, with the assistance of the Technion Patent Committee, will assist in preparing and submitting the patent with the inventors, if so warranted, and will cover all expenses derived from the submission. While TRDF is sole owner of the patent, all revenue will be equally divided (50%) with the inventors after expenses.

TRDF is fully empowered to manage the IP (patent or other form).
Early Stage Technology Transfer

Internal sources for advancement of IP:

Uzi & Michal Halevy 2018/19
$40,000 (2 projects)
New call for proposals due on 24/11/2017, pls see EVPR web.

Polak Fund for Applied Research 2018/19
$15,000 to $50,000 per project year
New call for proposals raised on 24/11/2017, pls see EVPR web.
A partnership company, where TRDF is a General Partner and the Managing Partner. Additional partners are wanted.

- Mentorship program
- Exchange program
- Entrepreneurship training program
- Beta-site support
- Fund raising support
- Office space
- Up to $100,000
## Division Leaders at TRDF

### Research Authority
Rita Bruckstein - [ritab@trdf.technion.ac.il](mailto:ritab@trdf.technion.ac.il) | 04-829-2570/6

### Human Resources
Vered Behar - [veredb@trdf.technion.ac.il](mailto:veredb@trdf.technion.ac.il) | 077-887-1776

### Technology Transfer
Gabriel Shemer (deputy) - [gabriels@trdf.technion.ac.il](mailto:gabriels@trdf.technion.ac.il) | 077-887-1780

### Continuing Education
Oded Raviv - [odedr@technion.ac.il](mailto:odedr@technion.ac.il) | 04-829-4467

### Finance & Economics
Yossi Wald (CPA) - [ywald@technion.ac.il](mailto:ywald@technion.ac.il) | 04-829-3515

### Metals Institute
Eng. Haim Rosenson - [rosenson@technion.ac.il](mailto:rosenson@technion.ac.il) | 04-829-4474

### Legal
Adv. Nili Weitzman - [niliw@techunix.technion.ac.il](mailto:niliw@techunix.technion.ac.il) | 04-829-3433
תודה!
bilitat!