



TERA

Technion-Rambam Initiative in Medical AI

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Technion-Rambam Future Hospital Research Grant: Deploying and Evaluating AI Models in Clinical Practice

The **Technion-Rambam Initiative in Medical AI (TERA)** is pleased to announce the launch of the **Future Hospital Program**; an innovative initiative aimed at integrating cutting-edge Artificial Intelligence (AI) models into clinical practice. TERA's mission is to initiate, support, and promote academic research and educational activities between institutions and partners in the field of medical AI.

We invite applications from researchers, clinicians, and AI developers to participate in this groundbreaking program.

Program Overview

The Future Hospital Program seeks to harness the potential of AI to transform patient care, streamline hospital operations, and enhance clinical outcomes. The call will proceed in two steps. First, interested applicants are invited to submit an expression of interest (EOI), which will be used to evaluate the model performance, potential impact, and ethical and technical feasibility of their proposed project. Applicants found suitable will then be invited to submit a full application. We expect that the level of support will be **about 100,000 NIS** per awarded project. The research program should last for one **18 months**.

Why Evaluate AI in Clinical Practice

Evaluating AI models in clinical practice is crucial to understanding their true impact on patient care. While retrospective datasets provide valuable insights, they do not capture the complexities and dynamic nature of real-world clinical environments. Deploying AI in clinical practice allows for:

- **Real-Time Feedback:** Continuous monitoring and adjustment of AI models based on real-time data and feedback from healthcare professionals.
- **Patient Interaction:** Understanding how AI interacts with patients and integrates into the clinical workflow.
- **Operational Challenges:** Identifying and addressing practical challenges in implementing AI solutions within the healthcare setting.
- **Clinical Outcomes:** Assessing the direct impact of AI on patient outcomes, safety, and satisfaction.
- **Ethical considerations:** Equity, fairness, and governance.



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Eligibility

We welcome applications from individuals and teams with AI models that have demonstrated potential in healthcare applications, including but not limited to:

- Diagnostic support systems
- Predictive analytics for patient outcomes
- Personalized treatment plans
- Medical image analysis
- Operational efficiency improvements

The collaboration team will include at least 1 Rambam' and 1 Technion' Principal Investigator, each can apply once. Data from different sources may be used; EMR, physiological time series, images, video, Omics.

- PIs who have previously been awarded a TERA grant can apply to this new program as a continuity of their AI model development. A summary report from the previous award will be requested.
- Full-time Technion faculty members from the rank of senior lecturer to professor are eligible to submit.
- A faculty member who is on sabbatical or on unpaid vacation (חל"ת) is not eligible to receive a grant at this time.
- Faculty members who retired with the rank of Professor Emeritus are eligible to apply for grants from competitive internal funds, provided that an 'Active Emeritus' form has been submitted and approved, and the section regarding continuation of research activity has been marked.
- Applicants must adhere to Technion regulations for proposal submission. The Technion Grant Procedural Manual can be found [here](#).
- In parallel to the submission of the research proposal by mail, researchers will register the research proposal through the Technion portal: <https://portal.technion.ac.il>

Benefits of Participation

- Grant Funding: Each awarded project will receive monetary support.
- Real-World Evaluation: Test and refine your AI models in a clinical setting.
- Collaboration: Work alongside healthcare professionals, data scientists.
- Resources: Access to hospital infrastructure.
- Impact: Contribute to improving patient care and hospital operations through AI innovations.
- Recognition: Gain visibility and recognition within the healthcare and AI communities.



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Application Process

1. Expression of Interest: Submit a) a short (EOI) application describing your AI model and its performance on retrospective data and intended impact/use, specify if an IRB is already available or has been submitted, b) specify if there are other partners and their role, c) one-pager CV for each PI, include 3-5 selected references associated with the research topic.
2. Review and Selection: A panel of experts in healthcare and AI will evaluate potential impact, feasibility and ethical aspects.
3. Full Application: After the preliminary clearance for project potential and feasibility, applicants will be invited to submit a full proposal for consideration.
4. Deployment and Evaluation: Chosen participants will deploy their AI models in our clinical setting, with ongoing support and evaluation.

Guidelines for Expression of Interest (EOI) Submission

Applicants are requested to submit a concise Expression of Interest (maximum 3 pages including references and figures). The EOI should include the following sections:

1. Project Title and Team Information
 - Project title
 - Names, affiliations, and roles of key investigators/applicants
2. Project Summary (max. 300 words)
 - A clear and accessible description of the proposed AI model
 - The clinical problem or workflow the project seeks to address
3. Technical Description
 - Outline of the AI model (architecture type, input data, intended outputs)
 - Current stage of development and validation (e.g., retrospective testing, validation, pilot study)
 - Data and data collection tools requirements and availability for deployment and evaluation
4. Clinical Relevance and Impact
 - Intended clinical use case(s)
 - Expected benefits for patients, healthcare providers, and/or hospital operations
5. Ethical and Regulatory Considerations



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- Data privacy and security measures
 - Potential risks for patients or healthcare providers
 - Compliance with relevant regulations and ethical guidelines
 - IRB
6. Feasibility and main challenges
- Available resources and expertise within the applicant team
 - Technical readiness for deployment in a hospital environment
7. Future Plans
- Steps envisioned for scaling up if successful
 - Potential for collaboration with clinical teams at Rambam and Technion

Project duration: up to 18 months

Timeframe

Phases	Deadline
Phase 1: Expression of Interest	15/12/2025
Phase 2: Review and Selection	15/01/2026
Phase 3: Full Application	30/01/2026
Phase 4: Results announcement	03/2026

Apply your proposal via tera@technion.ac.il