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1st Round Call - Machine learning in medical AI

Goal:

The Goal of TERA is to close the loop between medical data availability and their actionable benefit to patient care.

Applicants:

Principal investigators from the Technion and from the Rambam HealthCare Campus (RHCC) are invited to submit research proposals for joint projects. The awardees will be provided with a total support worth up to 170,000 NIS, including 20,000 NIS in kind and 150,000 NIS in fund. We expect 3 awards in this round.

Project Criteria:

1. Collaboration between researchers: at least two researchers including one PI from the Technion and one PI from the RHCC. PI affiliations will be looked at per their primary affiliations. Clinicians will submit their proposal only as RHCC PI.
2. In the core field of machine learning in medicine involving the processing of data from different sources such as EMR data, physiological time series, images, video or Omics.
3. The proposal may involve external partner from the industry as a supporter or academia where appropriated.
4. New and ongoing projects may be supported.
5. Each PI can only apply to one project.
6. A faculty member who is on sabbatical or on unpaid vacation is not eligible to receive a grant at this time. A faculty member who has retired is not eligible to receive a grant within technical internal funds.

Benefits for the selected projects:

For each project, TERA will provide technical and consulting services totaling 80 hours for the following services:

- Technical support and infrastructure to collect and store data.
- Data scientist: Python or R development, algorithms validation.
- Consulting (up to 6 hours): regulation, statistician, epidemiology.
- Project management: for algorithms validation, pilot development.

In Addition, the awarded projects will get a sum of 150,000 NIS. Half of the sum will be delivered at the start of the project and the other half when a competitive grant has been submitted by the co-PI's from Technion and Rambam.

Submission Instructions:

The research proposal should include the following items:

1. Proposals should be submitted in english.
2. Title of the proposal, names of the applicants, a short abstract (max 200 words) and up to five keywords.
3. Core proposal: scientific background, state of the art, research gap and description of the proposed research, methods including population definition, sample size and description of the needed data (no more than two pages), Budget and budget justifications.
4. Pre existing funding, i.e beyond TERA, associated with the submitted application, including the name of the funder and the level of funding.
5. Short CV (1-pager), including 3-5 references associated with the research topic.
6. Also specify if:
 - This is a new or ongoing project.
 - If an IRB is already available or has been submitted.
 - If there are other partners and their role.
7. Applications must follow [Technion regulation for proposal submission](#).

Recognition:

The awardees are expected to participate in TERA events which will take place in 2023. the recipient is required to credit the support of TERA by including the following statement - "We acknowledge the support of the Technion- Rambam initiative in Artificial Intelligence in medicine and the Technion Data Science Initiative."

Submissions should be submitted electronically as one PDF or Word file to jbehar@technion.ac.il by the 9th of January 2023. Submissions received after that date will not be considered. In Parallel, Technion researchers will register the research proposal through the [Technion portal](#).