



MINISTRY OF SCIENCE AND
TECHNOLOGY
STATE OF ISRAEL



JAPAN SCIENCE AND
TECHNOLOGY AGENCY
(JST), JAPAN

JAPAN-ISRAEL COOPERATIVE SCIENTIFIC RESEARCH

Call for Project Proposals

in the area of 'ICT for a Resilient Society'

A. AREAS OF COOPERATION

The Japan Science and Technology Agency (herein referred to as “JST”) and the Ministry of Science and Technology of State of Israel (herein referred to as “MOST”) are providing financial support for joint research activities carried out by Japanese and Israeli researchers. Japanese-Israeli research teams are hereby invited to submit joint research proposals on **ICT for a Resilient Society**. Funding for this research area focuses on exploring technologies, computer systems, solutions, or mathematical models based on ICT. Through such funded research, we expect our society to become more resilient to drastic changes or damage caused by social challenges, economic downturns, or mass disasters caused by natural hazard, economic problems and/or man-made accidents. Moreover, such research may allow us to restore stability of urban infrastructure and public services in a timely fashion after the above social changes. Collaboration between Japanese and Israeli researchers in response to this call should aim to leverage ICT potential and various possibilities as much as possible in order to address these challenges.



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The objective of the Call is not only to produce innovative research outcomes, involving the improvement or optimization of services utilizing ICT, but also to promote research exchange and networking through research collaboration between the two countries. Research proposals should clearly state their goals and their planned approaches, as well as the social issues or challenges they intend to address.

The following are examples of social issues or challenges that the “ICT for a Resilient Society” field of research can target:

- Economic/social fluctuations, mobility including traffic flows, ICT networks and grids, population behaviors in times of social change and mass disasters or other emergencies, issues surrounding urban infrastructure systems from social and cultural perspectives on one hand, and from the perspective of mass disasters involving a large number of people on the other.
- Relations between ICT and domain(s) including aging society, health care, mobility assessment, energy management, and/or response and recovery during and after mass disasters:
 - Modularity of responses and applications;
 - Civilian response, government response, interfacing for disaster response;
 - Resource allocation and logistics.
- Resilient technologies for social ICT architecture and infrastructures, social services, and



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understanding and management of human behavior:

- Data architecture and cloud service platform;
 - Health care system including babies, toddlers and senior people;
 - Deteriorated social infrastructures and embedded sensors and actuators;
 - Modularity of responses, applications and coordination.
- Mathematical and/or economical model of impact analysis.
- Research proposals integrating into ICT various disciplines such as computer science, urban engineering, sociology and economics, or disaster prevention science and technologies are encouraged and welcomed in this collaboration program.
- Ethical, Legal and Social Issues (ELSI) of innovations in ICT in comparative perspectives.
- **Proposals targeting medicine or drug development are not eligible for this Call for Proposals.**

B. MODE OF COOPERATION

Cooperation may take the form of:

- Joint research activities where interdependent subprojects of a single project are conducted in the Japanese and the Israeli laboratories;
- Complementary methodological approaches to a common problem;



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- Joint use of research facilities, materials, equipment and/or services by cooperating scientists;
- Joint planning of research and evaluation of results.

Submission of joint research projects by researchers of both countries is requested with the aim of encouraging scientific and technological co-operation between Japan and Israel. Each joint research team may submit one project only. Financing will be granted exclusively for joint projects by Japanese researchers and Israel researchers.

C. LEVEL OF FUNDING AND PROJECT DURATION

The total maximum project funding for all research projects approved under this Call is 70,200,000 JPY for the Japanese side and 2,400,000 NIS for the Israeli side, over a three-year period. The allocation for each specific research proposal that is approved will be up to **18,000,000 JPY** as direct cost (the overhead cost of 30% of direct cost is added separately) on the Japanese side and up to **800,000 NIS** on the Israeli side for the three-year project period.

It is the intention of JST and MOST to support **approximately 3 joint projects**. However, the actual number of projects to be sponsored will be determined based on such factors as scientific evaluation and budgetary considerations. Research projects should be planned on **a three-year basis**. Contracts will be signed accordingly.



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Funding for the approved projects will depend on budgetary approval by the State in respect of each of the program sponsors to this Call and the availability of funds in the relevant line of the State budget of both countries.

D. ELIGIBILITY

1. Projects must be conducted by collaborating Japanese and Israeli scientific research teams.
2. Each research team must be led by one Principal Investigator from each country.
3. The Principal Investigators of the Israeli side must be member of an academic or research institution or a professor emeritus who continues working on research in academic or research institution (hereinafter called the "Affiliated Institution");

In Israel, the "Affiliated Institution" must be one of the following:

- a) An accredited institution of higher learning in Israel, according to the Council for Higher Education Law, 1958;
- b) A Research Institute recognized as such by the Israel Science Foundation (ISF);
- c) A Research Institute which is a nonprofit organization;
- d) A Research Institute which is a government company or a governmental unit.

For the purpose of this Call, a "Research Institute" is a research institute whose significant portion of activity is the advancement of cutting-edge scientific knowledge, possessing appropriate infrastructure and equipment, and employing researchers who, inter alia, publish articles related to their research in leading scientific journals in the world, and who present their research at international symposia.



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4. In Japan, the Principal Investigator must be personally affiliated with a domestic research institution and conduct research there. Domestic research institutions on the Japanese side refer to universities, independent administrative institutions, national/public testing and research institutions, specially authorized corporations, public-service corporations and enterprises, etc. that must satisfy predetermined requirements specified by the Ministry of Education, Culture, Sports, Science and Technology in Japan. Any individual who satisfies any of the following conditions is also eligible to apply as Japan-based Principal Investigator.
- a) Researcher holding citizenship other than Japanese who belongs to a Japanese domestic research institution.
 - b) Researcher who is not currently affiliated with a particular research institution, but who will be affiliated with a Japanese domestic research institution and able to conduct research there if selected as Japan-based Principal Investigator.
 - c) Japanese researchers currently residing overseas who will be affiliated with a Japanese domestic research institution and able to conduct research there if selected as Japan-based Principal Investigator.

Japan-based Principal Investigator must be able to take responsibility for the duties of the entire project for the full duration of the joint research project. Also, Japan-based researchers from industry are eligible to participate in the joint research project in the Japan-based team and may act as Principal Investigators.

5. Each Principal Investigator and affiliated Institution is accountable to JST or MOST, respectively, for the execution of the project.



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6. Proposals for which funding is approved, which include experiments with animals, must submit the approval of the relevant Helsinki Committee for Experimentations on Animals before the project can commence.
7. Proposals for which funding is approved, which involve human beings, must submit the approval of the relevant Helsinki Committee before the project can commence.

D1. ADDITIONAL PROVISIONS

It is required that the Japanese and Israeli research teams and their institutions enter into agreements regarding intellectual property rights after their research proposals are approved.

D2. SUBMISSION OF RESEARCH PROPOSALS

For Japanese research teams:

Japanese Principal Investigators should electronically submit proposals in English (the same as submitted by the Israeli side) and partly in Japanese (where indicated) using the attached Application Forms, via the “e-Rad“ System to JST by 17:00 (Japanese local time) on **October 23rd, 2017**.

See Appendix for Additional Requirements for Japanese Researchers (only in Japanese)

For Israeli research teams:

The Israeli Principal Investigator should submit the proposal by e-mail in English, using the attached Application Form and the required documents to the following email address:



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Japan@most.gov.il ((in "pdf" format duly signed, along with a working copy in "doc" format without signatures).

The proposals should actually reach the abovementioned email address by 23:59 (Israeli local time) on **October 22nd, 2017**, and will not be accepted under any circumstances after the specified date and hour.

Because of technical constraints, an email over 20 megabytes will not be received. If the email and its attachments exceed 20 MB, it must be split. Shortly after submitting the email the applicants should receive an automatic reply acknowledging its receipt. If an email confirming receipt is not received, the applicant must approach MOST contact persons detailed below to make sure the email was duly received. **It is solely the sender's responsibility** to receive confirmation that the email was received, whether by automatic reply or personal confirmation. As technical problems are possible, **it is strongly recommended to submit the application well in advance of the application deadline**. A valid project application consists of the Application Form **duly filled in and signed**, together with all the necessary application documents required from each side of a joint research team, submitted respectively to MOST and JST. **If the applications are not duly received by both MOST and JST by the date and hour indicated above, the project will not be accepted.**

In addition, Israeli Principal Investigators **should send also 2 hard copies** of their proposals by **October 26th, 2017** to the following MOST address:

Avi ANATI

Deputy Director General for Planning & Control



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Ministry of Science and Technology

Call for Proposals for Israel-Japan 2017

Government Offices, Kiryat Begin

Clermont Ganneau St. 1

Building 3, 3rd Floor, Room 309

Jerusalem



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E. FUNDED EXPENSES

Funding provided by this Call is intended to enhance joint collaboration between Japanese and Israeli scientists. Funding will therefore be provided mainly in support of the collaboration vectors and of the local research that is necessary for the collaboration. In any case, each budget item or expenditure for which reimbursement is requested must conform to the respective national rules of each applicant.

For Japanese research teams

Funding can be provided by JST for:

- (1) Stipend for a PhD student, stipend or salary for a post-doctoral fellow, salary for a researcher, technician and/or laboratory worker (temporary positions for up to 3 years within the research project period)
- (2) Consumables
- (3) Small scale equipment



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- (4) Travel and visiting costs
- (5) Joint seminars and workshops

The budget of a project may differ in each year, depending on the content of activities, but the total budget for a researcher in Japan over three years including items (1) through to (5) should not exceed 18 million yen.

For Israeli research teams

Funding can be provided by MOST for the following types of expenses:

- (1) Stipend or salary for PhD students, post-doctoral fellows, technicians and/or laboratory workers (i.e. a temporary position up to 2 years) retained specifically for the purpose of the project, not including salaries for permanent staff and PI's;
- (2) Consumables. In case they exceed 1,000 USD, a detailed explanation regarding their necessity and quantities is required ;
- (3) Small scale equipment which is only needed for the specific research project; MOST will enable purchase of computers or laptops only in special cases in which the computer or laptop is part of the research project or are of unique capacities needed for the specific research
- (4) Travel and visiting costs;
- (5) Joint seminars and workshops;



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- (6) Overhead expenses up to 15% of the total amount of the research project inclusive of the funds provided on the basis of this Call.

F. MUTUAL VISITS

Participating researchers are encouraged to spend an extended period of time visiting their counterparts' institutions given that such visits are an integral part of the research collaboration. All costs for travel, accommodation, per diem and any other visiting expenses for each visiting scientist will be included in the budget of that scientist's research team. (i.e. "Visiting side pays all"). For Israeli research team, funding provided under this Call may only be used for visits that take place in Japan or Israel.

G. PROPOSAL REVIEW

The projects will initially be evaluated separately by JST and MOST. Subsequently, the assessment will be carried out by the Sub Joint Committee of the two Parties in order to select the projects admitted for funding.

The projects will be assessed according to the following evaluation criteria:

1. Conformity with the definition of the program research topics of this Call;
2. Scientific Qualification of the Principal Investigators (one for each country per research project): The Principal Investigator should have experience, appropriate expertise and ability to manage the collaboration and carry out the project goals within the project period;



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3. Significance of the problem being addressed, and the potential impact of the proposed approach on solving it. (Proposals should address these issues explicitly and provide as much evidence as possible.);
4. Scientific merit, with emphasis upon the originality and novelty of the proposed research;
5. Clarity and quality of the research proposal itself – presentation of the topic, definition of research objectives, presentation of research methodology and detailed program of work;
6. Feasibility of implementation of the proposed research and access to relevant resources;
7. Practical applicability;
8. Synergetic effect and Added value of the bilateral scientific cooperation; extent of genuine collaboration between the Japanese and Israeli research teams;
9. Effectiveness and continuity of the exchange: The proposal needs to contain activities to enhance sustainable research exchange, including the level of involvement of young researchers;
10. Justification of the requested project budget.

H. CONTRACTS, PAYMENTS AND REPORTS

1. The expected starting date for approved projects is **April 2018**. The expected completion date is three years after the starting date of the approved projects.
2. Contracts:

Upon approval of a particular project, separate contracts will be signed in Japan and Israel respectively, between JST and the institution of Japanese Principal (and, when



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necessary, Partner) Investigator(s), and between MOST and the institution of Israeli Principal Investigator.

3. In Israel – although the contract is approved in principle for a three-years period, a renewal of the second and third year must be requested and approved by MOST. An application for the continuation of research funding for the second and third year must be submitted by the institution of Israeli Principal Investigator to MOST on the appropriate forms at least two months prior to the end of the first and the second year of the project together with the annual scientific report.

4. Payments:

Payments will be made by JST and MOST respectively to the institution of each Principal Investigator, and to the institution of other Partner Investigator(s) in Japan when necessary, in keeping with the provisions of the contracts referred to above, according to the regulations and practices in force in each country.

5. Reports

a) Financial Reports

Financial reports will be submitted to JST or MOST, respectively, by the institutions of each Principal Investigator (and Partner in the case of the Japanese team) as specified in the research contract.

b) Scientific Reports

After the conclusion of the project a full final report shall be submitted to JST (by the Japanese Principal Investigator within 2 months) and MOST (by the Israeli Principal



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Investigator within 3 months) in accordance with the contract or the regulations in force in each country. The Principal Investigators will also submit a joint summary of the final report both to JST and MOST in English.

Additional interim progress reports may be required, according to the practices and regulations of each country, as specified in the research contracts.

In Israel: An interim scientific report must be submitted to MOST two months prior to the end of both the first year and the second year of the project, together with the application for continuation of research funding (see Paragraph 3 above).

In Japan: At the end of each fiscal year, the Japanese Principal Investigator shall promptly submit a progress report to JST on the status of research and networking activities.

I. SPECIAL PROVISIONS REGARDING THE ISRAELI APPLICANT

All procedures and activities under this Call or the projects approved hereunder, including the eligibility of institutions via which applications must be filed, are subject to the standard MOST Procedures Regarding International Collaborative Scientific Projects and Scholarships Funded by MOST and to the MOST Standard Contract for Scientific Projects (both documents referred to hereinafter as "the standard terms").

Applicants are required to familiarize themselves with the standard terms before filing an application under this Call; filing an application constitutes a declaration that the applicant has done so and agrees to be bound by the provisions thereof.



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J. INFORMATION ON INTELLECTUAL PROPERTY RIGHTS FOR JAPANESE RESEARCHERS

The contract between the Japanese institution and JST will stipulate that Article 19 of the Industrial Technology Enhancement ACT (Japanese version of the Bayh-Dole Act) and Article 25 of the ACT on Promotion of the Creation, Protection and Exploitation of Content (tentative translation) will be applied to all intellectual property rights generated as a result of this project, and that these can be the properties of the institution with which the Principal Investigator is affiliated.

K. INFORMATION

JAPAN:

For Additional information:

See (Appendix) Additional Requirements for Japanese researchers (only in Japanese)

Dr. Takashi Kawabe, Mr. Soichi Kubota,

Department of International Affairs

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E-mail: jointisr@jst.go.jp

ISRAEL:



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On administrative matters:

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