



German-Israeli Cooperation in Research on Civil Security and IT Security
Call for Proposals for Joint R&D Projects
Deadline for Submission: November 30, 2018

Scope

Germany and Israel are announcing a Call for Proposals for joint R&D projects, focusing on developing innovative solutions and applications in cyber security and civil security.

The Federal Ministry of Education and Research of the Federal Republic of Germany (BMBF) and the National Technological Innovation Authority of the State of Israel (NATI) represented by the Israel-Europe R&I Directorate (ISERD) intend to fund bilateral research projects in the aforementioned fields.

The funding measure will support innovative solutions with high market potential that serve to protect the population, companies and government establishments. Project proposals must be aimed exclusively at civil application scenarios. Within this framework, qualified applicants may receive R&D grants from the BMBF or NATI in accordance with the applicable national procedures and terms and conditions for funding.

Cooperation between partners from both countries is a requirement for funding under this announcement. German and Israeli companies are expected to work together with German and Israeli research institutions and end users in the field of civil security research or IT security.

Call Launch and Structure

The Call is launched on August 23, 2018 by BMBF and ISERD.

Eligible partners are invited to submit joint proposals for R&D projects according to the following procedures.

Objects and Qualifications

Funding will be provided for bilateral projects which develop innovative solutions and contribute to improving the protection of the population and the economy against the threats of terrorism, cyber attacks, organized crime, natural disasters and major technical accidents, among others. The projects must contribute to at least one of the following topics:

- a) Methods and techniques for the timely, efficient identification of and defence against cyber attacks: Solutions for automated intrusion detection and defence, e.g. for IT applications, networks and systems, critical infrastructures, industrial production systems, in particular based on artificial intelligence (e.g. machine learning, cognitive systems).
- b) Network and Internet security: Analyses of the state of security and development of large scale detection mechanisms (vulnerabilities, attacks, deployment of security measures) in current



networks, in particular the Internet; development of security improvements for the Internet; bi-national testbeds and experimental networks for network and Internet security.

- c) Security for the Internet of Things (IoT): Protection and resilience of IoT systems, ranging from device and network security to the development of security management systems and infrastructures and of security engineering for IoT applications.
- d) Disaster prevention and management: Concepts and measures for the management of crises. This involves ensuring the security of supply, e.g. electricity, the internet and communication systems, as well as control and command systems for disaster management. R&D aspects of training, planning or simulation can also be considered.
- e) Management of specific situations: specific solutions for responding to different types of situation e.g. natural disasters such as earthquakes or prevention and management of emergency situations at major public events. Projects can involve prediction, modelling, simulation and control and situation overview systems for specific requirements.
- f) Protection of infrastructures and transportation systems: e.g. developing technological measures to strengthen the resilience of infrastructures; cyber security aspects regarding critical infrastructures.

Furthermore, relevant social issues and data protection aspects should be addressed as part of the projects.

It is expected that proposals for collaborative projects between German and Israeli partners will be submitted in which companies, research institutes (both university and non-university) and end users are involved. Although it is not mandatory to involve all types of partners from both countries in each project, preference will be given to proposals which involve partners from industry, research institutes and end users.

The participation of at least one Israeli and one German company is required for projects focussing on IT security (topic areas a-c).

For projects focussing on civil security (topic areas d-f), at least one Israeli and one German company as well as one German end user must be involved in each project. The participation of Israeli end users is desirable, but not mandatory.

The proposed project should have obvious advantages and added value for both Germany and Israel resulting from the cooperation between the partners from the two countries (e.g. increased knowledge base, commercial opportunities, access to R&D infrastructure). The project outline should show the sustainable contributions of the partners from both countries.

All partners whose proposals are consistent with the aforesaid criteria can submit a project proposal in accordance with the applicable national and European laws, rules and procedures.



Submission and approval procedures

Submission and the approval procedures consist of a one-phase process in Israel and a two-phase process in Germany. This announcement invites partners to submit joint proposals for R&D projects using a common project form no later than **November 30, 2018**.

The joint project outline, which is to be submitted in English in both countries, must include a brief project description setting out the degree of novelty and the envisaged innovation as well as a description of the project partners and their role in the consortium. It must also include the economic significance, the planned utilization and an overview of the costs. In addition, it must set out the need for cooperation between the German and Israeli partners in the project.

The project outline must be assessable and easily understood on its own without extra aids and may not exceed 10 A4 pages (not including the tables included in the template; Arial font size 12). The project outline must be structured as follows, in accordance with the obligatory template:

- Overall objective of the project, summary of the project proposal, description of the civil security scenario and necessity of cooperation between the German and Israeli partners,
- Description of the scientific and/or technical working objectives and envisaged innovations,
- Brief description of the project consortium, allocation of roles and expertise of the project partners,
- State of the art of the relevant science and technology, patent situation, previous work,
- Work plan,
- Utilization plan (scientific, technical and economic utilization of results) and, if appropriate, strategies to adapt or draw up standards, norms and guidelines,
- Gantt chart,
- Overview of the financing plan (using the prescribed table, divided according to the collaboration partners), description of the own share to be contributed.
- The collaboration partners are free to add further points which they consider to be significant for the evaluation of their proposal.

The completed electronic form (project forms are provided by the project agencies in both countries) must be submitted simultaneously to ISERD and BMBF until the above mentioned deadline.

In ISRAEL:

The forms have to be legally signed by all participating companies. The signatures must be scanned and sent together with the form as an integral part of the application. The forms must be filled in in English, signed by both project partners and sent to the program managers.

Israeli partners will be invited to submit in addition and at the same time as the short project outline their funding applications to the Innovation Authority using this link: <https://innovationisrael.org.il/> Companies should contact ISERD before submission in order to receive the submission guidelines (see contact information at the end of the document).



In GERMANY:

The "easy-Online" electronic application system must be used for drafting project outlines (<https://foerderportal.bund.de/easyonline>). All information needed to take part in the call is available at this website including an obligatory template for drafting the project outline. In addition to the electronic submission of the project outline by the deadline given above, a printed version signed by the coordinator must be submitted to the project management organization.

Companies should contact ISERD and BMBF before submission in order to receive the submission guidelines and the form for the joint project outline and additional Israeli forms (see contact information at the end of the document).

Financing

Projects in the frame of this call for proposals will be financed by the respective national authorities in Germany and Israel. Funding conditions and eligibility criteria may vary from country to country. As a summary, some main aspects of funding criteria are explained below:

In GERMANY:

BMBF will award non-repayable project grants to the German collaborative partners within the available budget funds. For German applicants additional terms and conditions apply. Therefore, German participants should consult the legally binding call for proposals "Regulations for the funding measure German-Israeli Cooperation in the Research Fields of Civil Security and IT Security" published in the Bundesanzeiger on July 23, 2018.

In ISRAEL:

An Israeli R&D performing company which initiate single or multi-year program that will provide know-how, processes or methods for the manufacture of a new product, application, technology base service or process.

The product must have a sizeable potential for export sales.

Research institutes or other participants may apply as a subcontractor to a company.

The support is in the form of a conditional grant amounting generally up to 50% (+ regional incentives for companies located in "development zone") of the eligible R&D budget. Further details regarding grants and payment of royalties are available at the Innovation Authority web site.



Germany (Project agencies of BMBF)

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