



Ministry of Trade,
Industry and Energy



רשות החדשנות
Israel Innovation
Authority



Korea-Israel Industrial R&D Foundation “Strategic Program” Call for Proposals

- Bio-Convergence -

13 October 2021

Korea Israel Industrial R&D Foundation (KORIL-RDF) is a bi-national foundation, created by the governments of the Republic of Korea and the State of Israel, whose mission is to promote and support technological collaboration in innovative R&D between commercial companies in both countries.

KORIL-RDF invites you to submit joint proposals for industrial R&D projects in the sector of “**Bio-Convergence**”.

This program aims to	• Achieve a technological breakthrough in the field of Bio-Convergence • Promote intensive financial support for strategic sector
Timeline	• Open call for proposals on 13 October 2021 • Applications close at 19:00 KST (12:00 IST), 10 February 2022 • All project proposals should be jointly written in English and submitted to KORIL offices simultaneously by Korean and Israeli companies together and to the Israel Innovation Authority online system by the above deadline.
Who can apply?	• R&D cooperation between two, unrelated companies, one registered in Korea and the other in Israel. • Academia participation is highly recommended as a sub-contractor. (budget for sub-contractor is up to 30% of total budget)
Eligible technology sectors	1. Advanced Engineered Drug Delivery & Diagnostics Systems (Bio-nanorobotics) 2. Advanced therapeutics discovery systems 3. Tissue Engineering – 3D bio-printing & Cyborg tissues 4. Bio-electronics & electroceuticals and Bio Sensors & hybrid devices • Refer to the annex 1 for eligible technology segments for the call
Funding for project	• The maximum grant funding per project is up to US \$ 3,000,000 or 30% to 50% of the eligible cost, whichever is lower. *in exceptional cases up to 70%. (contingent on the quality of the proposal and available funding)

- Project duration is up to **3 years**.

**Evaluation
Criteria**

- Company's Technical, Financial, & Commercialization Capabilities
- Synergy Between Companies & Complementarity
- Level of Innovation/Novelty
- Potential for Commercialization Success

Guidelines and forms are available here: <https://koril.org/en/procedures/forms.php>

Please feel free to contact us to discuss your proposal.

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(Annex 1)

Eligible Technology Sectors

Advanced Engineered Drug Delivery & Diagnostics Systems (Bio-nanorobotics):	re-engineering living material and biological circuits to create programmable bio-vehicles or bio-engineered nano-robotics devices to carry out specific tasks in the body for therapeutics delivery and diagnostics. This field is based on capabilities in engineering of biological systems, nanorobotics, molecular machines, biosensors genetic engineering, synthetic biology, computational biology and nanotechnology.
Advanced therapeutics discovery systems:	Highly scalable biological model platforms to facilitate drug screening. One example in this area is the Organ-on-a-Chip platform, microfluidic cell culture devices that recreate the tissue-tissue interfaces, physical microenvironment, and vascular perfusion of living human organs. This field includes capabilities in MEMS (Micro Electro Mechanical Systems), engineering, robotics, nanotechnology. advanced microfluidics and 3D Bio-printing, artificial intelligence, Big-Data mining and high throughput screening.
Tissue Engineering – 3D bio-printing & Cyborg tissues:	this field is focused on engineering functional, multiscale, vascularized 3D tissues composed of living human cells that can be seamlessly integrated into the human body for regenerative medicine. Advanced tissue engineering can be combined with cyborg tissues, part-living and the other part-electronic devices, which can monitor, regulate, stimulate and respond to various micro-environmental changes and signals in the body. This field is based on combined capabilities in synthetic biology and genetic engineering, advanced biomaterials, nano-electronics, biochips, engineered processes and printing technologies.
Bio-electronics & electroceuticals and Bio Sensors & hybrid devices:	this field is based on miniaturized implantable devices to deliver electrical stimulation to specific nerves in order to control wide range of physiological functions. Development of integrated biological component systems (receptor/organ/DNA/etc.) with electronic interface enables low priced, miniature devices for enhanced performance of continuous monitoring and diagnostics than currently existed in chemical/optical technologies sensing.

(Annex 2)

How to submit a proposal in the IIA (Israel Innovation Authority) system

Proposals for KORIL Strategic Program should be prepared and submitted jointly by both companies to KORIL-RDF offices, simultaneously via an e-mail and to the Israel Innovation Authority online system by 12:00 IST on the final submission deadline. Proposals should be written in conformance with, but not limited to, the outline shown below and should be supported by any relevant official company documentation.

The Israeli company needs to register to the [IIA system](#) (companies that applied for the IIA's support before, use the same user) and upload the proposal in the following order:

1. When requesting to fill the "Track Name" – choose Bilateral Funds (קרנות דו לאומיות)
2. Fill the obligatory fields in Hebrew (will be mark with a red *)
3. In article 3 (Proposal details)
 - The Subject of the Proposal: copy the name of the proposal written in the Cover Page of the proposal
 - The start and end date of the project: write the same dates as in the Cover Page
 - Requested budget: the same budget as mentioned in the proposal (in INS)
 - Description of the Project – The same as written in the proposal
 - Project duration (in years) - The same as written in the proposal
 - Current Year of the Project –mention the total years of the proposed project
 - Country of Collaboration – choose KORIL (Korea)
4. In the attachments:
 - R&D request – upload the proposal (the same proposal that is submitted in the e-mail), in a WORD format
 - Budget – upload the excel budget form
 - Attestation Form – upload the signed Cover Page
 - Extra information and supporting documents (CVs and more) add as "other attachments"
 - If you have more than one project in KORIL or in the IIA, upload the "טופס ריכוז משאבים"

After finishing uploading all the information and documents press "End and Send". the system will provide you a file number – send it the Israel office of KORIL (Ella.heller@innovationisrael.org.il)

*The application via the IIA system must be identical to the documents submitted by e-mail. If a difference will be found the proposal will be rejected.