

# Horizon Europe Funding Opportunities - 2021

## EIC Pathfinder + Transition

**ISERD** is the interface between the Israeli government and the European Union, encouraging Israeli entities to participate in funding opportunities, and assisting in the process. ISERD holds events, information days, and [monthly Orientation Presentations](#) to give more information about funding opportunities

### Horizon Europe -

[Horizon Europe](#) is a 95 billion euro funding programme for innovation and research, that covers all major scientific and technological disciplines, and encourages collaborative projects (consortium) for a joint goal.

- Consortium –
  - ✓ At least 3 partners from 3 different countries participating in the programme
  - ✓ Out of the 3, at least one partner must be from an EU country
  - ✓ A partner can be any legal entity – University, company, agency, organisation, etc...
- Funding Tools –

Action	Funding*	Main Characteristics
RIA – <b>Research &amp; Innovation Action</b>	100% + 25%	Basic and applied <b>research</b> , technology development and integration, <b>testing</b> and validation - small-scale prototype in laboratory or simulated environment
IA – <b>Innovation Action</b>	70% + 25%	<b>Prototyping</b> , testing, demonstrating, piloting, large-scale product validation and <b>market replication</b>
CSA - <b>Coordination &amp; Support Action</b>	100% + 25%	<b>Networking</b> , coordination or <b>support services</b> , policy dialogues and mutual learning exercises and studies

\* Non profit – always 100%

**DISCLAIMER:** The participation of Israeli entities, as associated country members in Horizon Europe projects is subject to the signing of the 'Association Agreement' to the programme between Israel and the EU, before the project's Grant Agreement (GA) is signed.

**For additional Information –**

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**Focus of the calls –**

- **EIC Pathfinder:** advanced research on breakthrough / game-changing technologies
- **EIC Transition:** transforming research results (Restricted – see below "Target Audience") into innovation opportunities
  - Increase maturity of the technology to TRL 5-6
  - Develop business plans for specific applications
  - Making the solution investment ready
- Both instruments have two funding options:
  - **Open calls:** This funding has no predefined thematic priorities and is open to proposals in any field of science, technology or application
  - **Strategic challenges:** This funding targets strategic priorities and complements the calls for open funding. With each specific challenge call, the EIC will establish a portfolio of projects that explore different perspectives, competing approaches or complementary aspects of the Challenge.

**Target Audience-**

- Research organisations, universities
- SMEs, industry, spin-offs, start-ups
- EIC Transition: For 2021, funding is restricted to applications based on results generated by the following eligible projects:
  - EIC Pathfinder projects (including projects funded under EIC pilot Pathfinder, Horizon 2020 FET-Open, FET-Proactive and FET Flagships calls (including co-funded ERANET calls under the FET work programme)
  - European Research Council (ERC) Proof of Concept projects

Area	Topic & Short Description	Expected TRL	Topic Budget (M€)	Funding Terms	Deadline
EIC Pathfinder Open	Open Call	TRL 1-4	EUR 170.10 million	RIA Budget per project: EUR 3 million	Opening: TBD Deadline: 19/5/2021
EIC Pathfinder Challenges	<p><b>Awareness Inside:</b> Address each of the expected outcomes:</p> <ul style="list-style-type: none"> <li>• New concepts of awareness that are applicable to systems other than human</li> <li>• Demonstrate and validate the role and added-value of such an awareness</li> <li>• Define an integrative approach for awareness engineering</li> </ul>	TRL 1-4	EUR 133.60 million	RIA Budget per project: EUR 4 million	Opening: TBD Deadline: 27/10/2021

Area	Topic & Short Description	Expected TRL	Topic Budget (M€)	Funding Terms	Deadline
	<p><b>Tools to measure and stimulate activity in brain tissue:</b> Tackle at least one of the challenges:</p> <ul style="list-style-type: none"> <li>• A full device with unique features (a working prototype device or instrument, and pre-clinical data with proof of therapeutic action)</li> <li>• New or nascent physical principles or methodologies that could be the basis for future brain sensing and/or stimulation technologies</li> </ul>				
	<p><b>Emerging Technologies in Cell and Gene therapy</b> Propose convincing technological solutions and/or new breakthrough concepts that go far beyond the current state-of-the-art, and aim to overcome cell and gene therapy challenges and obstacles at the preclinical or clinical level or bio-manufacturing level.</p>				
	<p><b>Novel routes to green hydrogen production</b> Proof of concept or lab-scale validated innovative Green H2 production technology: By programmable and controlled biological, chemical or physical routes, without the deployment of fossil fuels, potentially including the use of salt or waste water, air moisture, biomass or the co-production of decarbonized chemicals.</p>				
	<p><b>Engineered Living Materials</b> Develop technologies for the production of a minimum of two different living materials. A proof of principle of technologies far beyond the current state of the art, or a laboratory validated, automatized and computer-aided design-build-test-learn (DBTL) platform.</p>				
EIC Transition Open	Open Call	TRL 5-6	EUR 61.00 million	RIA Budget per project: EUR 2.5 million + 50k€ for portfolio activities	Opening: TBD Deadline: 22/9/2021

Area	Topic & Short Description	Expected TRL	Topic Budget (M€)	Funding Terms	Deadline
EIC Transition Challenges	<b>Medical Technology and Devices: from Lab to Patient</b> Perform the necessary R&D to advance from an existing proof-of-principle technology to a mature version ready to initiate clinical evaluation, outlining the proposed path to patient and describing an investable proposition	TRL 5-6	EUR 40.85 million	RIA Budget per project: EUR 2.5 million	Opening: TBD Deadline: 22/9/2021
	<b>Energy harvesting and storage technologies</b> develop energy storage technologies or combined energy harvesting/storage technologies ready for investment and business development, with the perspective to capture specific systems integration opportunities				

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