



Inhaltsverzeichnis

1. /EU Horizon2020/ Specific Grant Agreement European Low-Power Microprocessor Technologies 2020, ID: EuroHPC-2020-02, Deadline: 12 January 2021 17:00 Brussels time.	1
2. /sonstige*/ EUREKA-Ausschreibung für gemeinsame Forschungs- und Entwicklungsprojekte (DE-IL), Deadline: 25.11.2020	2
3. /sonstige*/ Brokerage Events zum Green Deal Call	3

Inhalte

1. /EU Horizon2020/ Specific Grant Agreement European Low-Power Microprocessor Technologies 2020, ID: EuroHPC-2020-02, Deadline: 12 January 2021 17:00 Brussels time

Specific Challenge:

Within the Framework Partnership Agreement in European low-power microprocessor technologies awarded in 2017, the selected consortium will be invited to submit a Research and Innovation Action proposal for the second phase of the design and development of European low-power processors and related technologies for extreme-scale, high-performance big-data, AI and emerging applications, in accordance with the research roadmap defined in the respective FPA.

Scope:

In particular, the proposal will build on the results of the Phase 1 of the European Processor Initiative (EPI), and is expected to cover the following topics:

1. Development of the second generation of low-power general purpose processing system units. Generate the functional and non-functional requirements (using representative HPC and big-data benchmarks, emerging applications specifications (in the automotive sector for example), and targeting maximum energy-efficiency and reliability; design the architecture of the processing system units; verify, tape-out, validate, test and bring up the processing system units; develop the required firmware and system software leveraging, as much as possible, on open source efforts and solutions.
2. Development of the second generation of low-power processing system units for application acceleration. Generate their functional and non-functional requirements (using relevant representative HPC and big data benchmarks and emerging applications) and design their architecture to accelerate specific HPC and big data applications, including as edge and embedded automotive applications or other emerging applications. The applications must have high-volume potential. Processing units will be realised as standalone components, distributed collaborating systems or IP-blocks, and will include stand-alone open RISC V hardware approaches for accelerators with connectivity not limited to the EPI processing units, addressing a large number of application areas. Work in this topic is required to interface with topic a) in order to achieve maximum interoperability (including IP-block interfacing) and roadmap synchronisation.
3. Validation of the first generation of low-power processing system units developed in Phase 1 (and Phase 2). Finalize the required firmware and system software leveraging, as much as possible, on open source efforts and solutions; development and integration of the boards/blades and test benches to demonstrate the processing units and accelerators developed in Phase 1 (and Phase 2) of EPI with the porting of representative sets of real-life kernels for the chosen application(s). This will address also the integration and interconnection of the EPI hardware ecosystem with other approaches.
4. Support for a hardware and software development platform common to different processor and accelerator types. This platform should be accessible by a wide range of interested parties. Support should also be directed towards maximising early on the uptake by users of processor and accelerator technology developed in Phases 1 and 2 of EPI for testing purposes.

The developed technologies will demonstrate the synergies between HPC at the exascale level and scalability to distributed collaborating systems in emerging computing applications, in the automotive sector for example. The designs should follow a modular approach that would allow a rapid scale-up or

scale-down. Sustainability and economic viability of the developed solutions are key aspects.

Wherever appropriate in order to address specific technology needs and/or activities, the consortium should seek additional partners to join the FPA consortium, provided they respect the objectives of the project.

Wherever appropriate, the proposal could seek synergies and co-financing from relevant national or regional research and innovation programmes, including structural funds addressing smart specialisation. Work combining different sources of financing should include a concrete financial plan detailing the use of these funding sources for the different parts of the activities.

Considering the specific objectives of the call for proposals and the fact that these calls concern areas of critical importance for the security of Union and the Digital Single Market and may pose potential risk to ensuring European technological autonomy in line with Article 9(5) of the Rules for Participation, the EuroHPC JU may limit the participation of legal entities established in associated countries and legal entities established in the EU but controlled from third countries.

Expected Impact:

Proposals should describe how the proposed work will contribute to the impacts listed below and include a baseline, targets and metrics to measure impact.

- o Contribution to the realisation of the EuroHPC JU's overall and specific objectives
- o Strengthening scientific leadership as well as the competitiveness and innovation potential of European industry, contributing to a sustainable exascale HPC supply ecosystem in Europe and ensuring European technological autonomy in this field
- o Provide European industry with a competitive edge in processor technology with potential for a wide range of applications from engineering, science and bio-medical to automotive, manufacturing, finance and emerging big-data and smart objects fields
- o Leveraging the efforts on the European low power processing technologies (in particular the European Processor Initiative) and contributing to the realisation of future exascale system architectures based on such technologies
- o Creation, promotion and exploitation potential of European IP

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/eurohpc-2020-02;freeTextSearchKeyword=;typeCodes=1,0;statusCodes=31094501,31094502,31094503;programCode=H2020;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=submissionStatus;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

<https://eurohpc-ju.europa.eu/participate.html>

2. - /sonstige*/ EUREKA-Ausschreibung für gemeinsame Forschungs- und Entwicklungsprojekte (DE-IL), Deadline: 25.11.2020

Germany and Israel are announcing a Call for Proposals for joint R&D projects, focusing on developing innovative products and applications in all technological and application areas. Applicants are expected to develop ready-to-market solutions for products, technology-based services or methods, which have strong market potential for Germany, Israel and Europe. Partners apply for their R&D project for a EUREKA label,

a pan European network for market-oriented R&D.

Innovation Authority and the German Federal Ministry for Economic Affairs and Energy (BMWi) will provide access to public funding for joint projects provided by The Innovation Authority and by BMWi's ZIM program (Central Innovation Program for SMEs), respectively. Minimum requirement concerning the project consortium is the participation of at least one company of each of the participating countries.

German Partners:

Detailed criteria for submitting applications and the ZIM application form can be found on the ZIM website www.zim.de/kooperationsprojekte (in German); you may also contact AiF Projekt GmbH directly as described below. The application must comply with the regulations of the ZIM guideline and be written in German.

The proposal form is available on www.zim.de/formularcenter

Further Information:

https://www.eureka.dlr.de/media/content/20200817_13-DE-IL%20Call_final.pdf

3. /sonstige*/ Brokerage Events zum Green Deal Call

1. Online-Seminar zum Green Deal Call in Horizont 2020, 07.09.2020

Organisation: Forschungszentrum Jülich, NKS Digitale und Industrielle Technologien

Die NKS für Digitale und Industrielle Technologien organisiert gemeinsam mit Kolleginnen und Kollegen aus dem NKS-Netzwerk ein Online-Seminar, in dem die Themen und Rahmenbedingungen der Green-Deal-Ausschreibung 2020 vorgestellt werden. Sie haben dabei die Möglichkeit, sich über die Inhalte der Ausschreibung zu informieren und gezielt Fragen zu stellen. Die Zugangsdaten werden den Teilnehmerinnen und Teilnehmern nach der Anmeldung zur Verfügung gestellt.

Bitte melden Sie sich bis zum 2. September 2020 hier an.

https://www.horizont2020.de/veranstaltungskalender.htm?id=1875&pk_campaign=nl-nks-swafs&pk_kw=d=2020-08-27#viewanc

2. Horizon 2020 Green Deal: Information and Consortia Building Event Series - Sept/Oct 2020

Organisation: Knowledge Transfer Network (KTN) UK

The events will provide delegates with the opportunity to:

- Gather information on forthcoming Horizon 2020 Green Deal call topics;
- Discuss and refine your project ideas with potential partners;
- Discuss your project idea with UK National Contact Points;
- Build collaborations and join Horizon 2020 consortia.

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The calls will be covered across a series of online events with similar topics grouped.

Who should attend?

The events are suitable for anyone with an interest in participating in European projects in the forthcoming Horizon 2020 Green Deal topics. Delegates from all European Member States are encouraged to attend the events.

Webinar Dates

29 September 2020 - Session 1: Horizon 2020 Green Deal Areas 5, 6, 7 & 9

9 October 2020 - Session 2: Horizon 2020 Green Deal Areas 2, 3, 4 & 11

15 October 2020 Session 3: Horizon 2020 Green Deal Areas 1, 8 & 10

<https://web-eur.cvent.com/event/66ed5093-bcee-45e9-8f1e-56f748d655cb/summary?rp=00000000-000-0000-0000-000000000000>

3. Virtual Brokerage Event: SSH in the Green Deal Call, 07.10.2020

Organisation: Net4Society - international network of National Contact Points for the Societal Challenge 6

To foster opportunities for cooperation in the Horizon 2020 Green Deal Call, Net4Society organises a Virtual Brokerage event, focused on topics relevant for researchers from the Social Sciences and Humanities.

This event is foreseen to take place on 7 October 2020 (tbc) and will focus on the following topics of the Green Deal call which have been identified as relevant for actors from the diverse disciplines of the Social Sciences and Humanities.

<https://www.net4society.eu/en/Virtual-Brokerage-Event-SSH-in-the-Green-Deal-Call-1994.html>

4. Horizon 2020 Virtual Brokerage Event on the European Green Deal Call, 13.10. - 14.10. 2020

Organisation: EEN Ireland, Dublin

The programme will include presentations from the European Commission and National Contact Points in all areas of the Green Deal, and will provide a unique opportunity to pitch ideas and expertise in front of leading research organisations and cutting-edge innovators from across industry.

The virtual brokerage event will allow you to extend your international network and create strategic partnerships through scheduled one-to-one meetings. Participants will also have the opportunity to meet with National Contact Point experts, and the Enterprise Europe Network.

<https://h2020-green-deal-call-dublin.b2match.io/>