

**Kvietimas teikti programos Horizontas 2020 teminės srities  
„Mokslinių tyrimų infrastruktūros“ paraiškas**

Paskelbti keturi „Horizonto 2020“ teminės srities „Mokslinių tyrimų infrastruktūros“ kvietimai teikti paraiškas, pagal juos vyksta 7 tematikų konkursai.

„Horizonto 2020“ teminės srities „Mokslinių tyrimų infrastruktūros“ (angl. Research Infrastructures, including e-infrastructure) tikslas – aprūpinti Europą pasaulinio lygio infrastruktūromis (įskaitant e-infrastruktūrą), kuriomis galėtų naudotis tyrėjai ir mokslininkai Europoje ir už jos ribų.

Finansavimo intensyvumas – 100 %.

**Tematikos**

- Europos mokslinių tyrimų infrastruktūros plėtra iki ir po 2020 m.
- Mokslinių tyrimų infrastruktūros ir žmogiškojo kapitalo potencialo skatinimas inovacijų srityje
- Europos mokslinių tyrimų infrastruktūros politikos ir tarptautinio bendradarbiavimo stiprinimas

1 lentelė Kvietimų teikti paraiškas sąrašas

Kvietimo pavadinimas	Kvietimo identifikatorius	Paraiškų pateikimo terminas
<i>„Implementing the European Open Science Cloud“</i>		
Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal	INFRAEOSC-03-2020 (RIA)	2020-04-22
Increasing the service offer of the EOSC Portal	INFRAEOSC-07-2020 (RIA)	
<i>„Integrating and opening research infrastructures of European interest“</i>		
Integrating Activities for Starting Communities	INFRAIA-02-2020 (RIA)	2020-03-17
Pilot for a new model of Integrating Activities	INFRAIA-03-2020 (RIA)	
<i>„Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation“</i>		
Co-Innovation platform for research infrastructure technologies	INFRAINNOV-03-2020 (RIA)	2020-03-17
Innovation pilots	INFRAINNOV-04-2020 (RIA)	
<i>„Support to policy and international cooperation“</i>		
Strengthening the human capital of research infrastructures	INFRA supp-02-2020 (CSA)	2020-03-17

2 lentelė. Detalus finansuojamų veiklų aprašymas ir kiti reikalavimai

Kvietimo pavadinimas	Veiklos	Reikalavimai dalyviams	Projektų maksimali galima trukmė ir biudžetas
<i>„Implementing the European Open Science Cloud“ (H2020-INFRAEOSC-2018-2020)</i>			
Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal	Building on the outcomes of the projects awarded under topics EINFRA-12-2017 <sup>[3]</sup> , INFRAEOSC-06-2019 (a), INFRAEOSC-05-2018 (a), INFRAEOSC-04-2018 and other relevant EU funded projects and initiatives <sup>[4]</sup> (including the thematic clouds), proposals should address the following activities all together: a. Operation, maintenance and enhancement of the EOSC Portal (the website, the catalogue of services and the marketplace).	Mažiausiai trys juridiniai subjektai, kiekvienas iš jų turi būti įsteigtas skirtingoje ES šalyje	<i>Maksimali galima projekto trukmė 30 mėn</i> <i>Maksimali galima projekto vertė iki 40.9 million EUR</i>

	<p>b. Fostering and enabling secure service composability  c. User enhanced experience using Artificial Intelligence (AI) techniques  d. Widening the EOSC user base  e. Widening the service offer with commercial services  f. Support activities  Proposals shall also cover all the following activities aiming at boosting the impact and outreach of the EOSC Portal:  i. Outreach and skills  ii. Support to the Research Data Alliance’s contribution to the EOSC:</p> <p>As the scope of this activity is to consolidate a single EOSC Portal, at most <u>one single proposal</u> covering all the described activities (a. to f. included) is expected to be funded..</p>		
<p>Increasing the service offer of the EOSC Portal</p>	<p>In order to coordinate the provision through the EOSC Portal of state-of-the-art research purely enabling services across Europe, proposals should build on the competences of pan-European e-Infrastructures of diverse domains to ensure multidisciplinary research and synergies with national and regional programmes. The progressive federation of the services and resources under the awarded proposals, together with the progressive connection of ESFRI research infrastructures<sup>[1]</sup> and thematic clouds developed under other parts of the Horizon 2020 programme, should allow the EOSC Portal to provide a catalogue that increasingly meets the researchers’ needs covering the full research life cycle.  All the grants awarded under this topic will be implemented in the same period so that they can work on potential synergies, and coordinate in the overall service offering as well as in the communication and dissemination activities to avoid overlaps and fragmentation. To this extent, proposals should foresee dedicated activities for cooperation with the other selected projects and earmark appropriate resources.  Proposals should clearly identify one and only one of the following areas:  <b>(a1) Distributed and cloud computing resources</b> enabling researchers and other users to process and analyse data in a distributed computing environment..  <b>(a2) Data services</b> providing cost-effective and interoperable solutions for data</p>	<p>Mažiausiai trys juridiniai subjektai, kiekvienas iš jų turi būti įsteigtas skirtingoje ES šalyje</p>	<p><i>Maksimali galima projekto trukmė 30 mėn</i>  <i>Maksimali galima projekto vertė, Eur:</i>  <i>a1 – 8 mln</i>  <i>a2 – 7 mln</i>  <i>a3 – 4 mln</i>  <i>a4 – 2 mln</i>  <i>a5 – 1 mln</i>  <i>a6 – 2 mln</i></p>

	<p>management and long-term curation and preservation.</p> <p><b>(a3) Services supporting scholarly communication and open access</b></p> <p><b>(a4) Above the net services</b> are added-value applications and services that enable users to communicate, interact and collaborate effectively in a heterogeneous and distributed federated environment.</p> <p><b>(a5) Services and resources from non-research public sector data providers</b></p> <p><b>(a6) Additional research enabling services</b> that are not covered under any of the areas described in areas a1 to a5 and that do not overlap with existing services accessible through the EOSC Portal.</p>		
„Integrating and opening research infrastructures of European interest“ (H2020-INFRAIA-2018-2020)			
Integrating Activities for Starting Communities	<p>Funding will be provided to support, in particular, the trans-national and virtual access provided to European researchers (and to researchers from Third Countries under certain conditions<sup>[2]</sup>), the cooperation between research infrastructures, scientific communities, industry and other stakeholders, the improvement of the services the infrastructures provide, the harmonisation, optimisation and improvement of access procedures and interfaces.</p> <p>(i) Networking activities, to foster a culture of co-operation between research infrastructures, scientific communities, industries and other stakeholders as appropriate, and to help develop a more efficient and attractive European Research Area;</p> <p>(ii) Trans-national access or virtual access activities, to support scientific communities in their access to the identified key research infrastructures;</p> <p>(iii) Joint research activities, to improve, in quality and/or quantity, the integrated services provided at European level by the infrastructures.</p> <p>All three categories of activities <u>are mandatory</u> as synergistic effects are expected from these different components.</p>	Mažiausiai trys juridiniai subjektai, kiekvienas iš kurių turi būti įsteigtas skirtingoje ES šalyje	<i>Maksimali galima projekto vertė iki 5 mln eur</i>
Pilot for a new model of Integrating Activities	The main objective of this topic is the provision of access to research infrastructures and the harmonisation of national and European procedures for providing access. Proposals will mobilise a comprehensive group of several key research infrastructures in a given large domain as	Mažiausiai trys juridiniai subjektai, kiekvienas iš jų turi būti įsteigtas	<i>Maksimali galima projekto vertė iki 15 mln eur</i>

	<p>well as other stakeholders (e.g. public authorities, funding agencies, technological partners, research institutions) from different Member States, Associated Countries and other third countries<sup>111</sup> when appropriate, in particular when they offer complementary or more advanced services than those available in Europe.</p> <p>On the basis of a multiannual plan drafted taking also into account the assessment and the timing of previous grants, this work programme invites proposals addressing the following three domains.</p> <p><b>Facilities for research on Atmosphere</b> This activity aims to provide integrated access to and improve the services, included on-line services, of state-of-the-art European ground-based stations for long term observations of aerosols, clouds and short lived gases, key observation and monitoring infrastructures for non-CO2 gas, and instrumented environmental chambers for atmospheric simulation.</p> <p><b>Research infrastructures for research in micro-nano technologies for materials.</b> This activity aims to provide integrated access to and improve the services, included on-line services, of key infrastructures (e.g. experimental installations for micro- and nanofabrication, analytical and modelling/simulation facilities) for research in material nanoscience and nanotechnology, ranging from synthesis and nanolithography to advanced characterization and theoretical modelling/numerical simulation. Safety issues of nanoparticles should be taken into account.</p> <p><b>Research Infrastructures for advanced optical/IR and radio astronomy.</b> This activity aims to provide integrated access to and improve the services, included on-line services, of the key research infrastructures in Europe for optical/infrared astronomy and advanced radio astronomy, including Very Long Baseline Interferometry.</p>	skirtingoje ES šalyje	
„Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation“ (H2020-INFRAINNOV-2019-2020)			
Co-Innovation platform for research infrastructure technologies	The aim is the establishment of an open initiative oriented towards a novel research and innovation collaborative framework engaging both the research communities in Europe using Research Infrastructures and the industry (including SMEs), for the mutual benefit of these stakeholders and the European society at large.	Mažiausiai trys juridiniai subjektai, kiekvienas iš kurių turi būti įsteigtas skirtingoje ES šalyje	<i>Maksimali galima projekto vertė iki 35 mln. Eur</i>

	<p>This action allows for the provision of financial support to third parties in line with the conditions set out in Part K of the General Annexes. Being the financial support to third parties the primary aim of the action, at least 80% of the EU contribution should be used to this scope. Due to the nature of the work to be supported and taking into account that the support for the proofs of concept was already in the order of EUR 100 000 each, the contribution to a third party will go beyond EUR 60 000. The selection of the third parties to be supported under the grant will be based on an external independent peer review of their proposed work.</p> <p>Particular attention should be given to impact, dissemination strategy and the appropriate management of the IPR of the involved research infrastructures as well as to the cost efficiency and transparency of project administration. Proposals should enable the best conditions for the full exploitation by industrial partners of the innovation potential of research infrastructures and support technology and innovation transfer and joint development of high-tech products.</p>		
Innovation pilots	<p>Funding will be provided to research infrastructure networks to kick-start the implementation of a common strategy/roadmap for technological developments required for improving their services through partnership with industry. Proposals should then involve research infrastructures, industry and SMEs to promote innovation and knowledge sharing through co-creation of needed technical solutions and make use, when appropriate, of large-scale platforms combining R&amp;D (Research and Development), integration and validation for the technological developments.</p> <p>Proposals should address:</p> <ul style="list-style-type: none"> <li>• if not already done, the identification of key techniques and trends which are crucial for future construction and upgrade of the involved Research Infrastructures and the definition of roadmaps and/or strategic agendas for their development, in close partnership with the industrial partners, especially with innovative SMEs;</li> <li>• the development of the identified fundamental technologies or techniques underpinning and arising from the efficient</li> </ul>	Mažiausiai trys juridiniai subjektai, kiekvienas iš jų turi būti įsteigtas skirtingoje ES šalyje	<i>Maksimali galima projekto vertė 10 mln eur</i>

	<p>and joint use of the involved research infrastructures, taking into due account resource efficiency and environmental (including climate-related) impacts.</p> <ul style="list-style-type: none"> <li>• the prototyping of higher performance methodologies, protocols, and instrumentation, including the testing of components, subsystems, materials, and dedicated software, needed to upgrade the involved research infrastructures, construct their next generation, or develop new advanced applications.</li> </ul> <p>This topic targets 'Advanced Communities' which have reached a high level of integration and can focus on joint research developments. On the basis of a multiannual plan drafted taking also into account the assessment and the timing of previous grants, this work programme invites proposals addressing the following three domains:</p> <ul style="list-style-type: none"> <li>• Innovation in light source technologies</li> <li>• Innovation in detector technologies for accelerators</li> <li>• Innovation in accelerator technologies</li> </ul>		
<p>„Support to policy and international cooperation“ (H2020-INFRA SUPP-2018-2020)</p>			
<p>Strengthening the human capital of research infrastructures</p>	<p>The activity will support the training of both female and male staff managing and operating research infrastructures, the exchange of staff and best practices between facilities, and the adequate supply of skilled human resources, including through the development of specific education curricula and courses. A proposal under this topic should build on the past activities and the experience gained in projects such as <u>RAMIRI</u> (Realising and Managing International Research Infrastructures) and <u>RIttrain</u> (Research Infrastructures Training Programme and presents a clear evolution. The activities should include the promotion of existing good practises at research infrastructures as well as dissemination and exploitation of successful experiences to a wider set of relevant stakeholders. It should continue engaging with universities and developing specific curricula and courses for pan-European research infrastructures, taking into account their intercultural and interdisciplinary nature as well as their diversity (global, highly distributed, single site etc.). Strategic planning for the sustainability of training and</p>	<p>Min 1 juridinis vienetas</p>	

	<p>exchange programmes should be addressed, with the involvement of national agencies, ERICs, international organisations, and other relevant stakeholders. An increased use of interactive online training material should be explored. Particular emphasis should be put on the development of data management, exploitation and stewardship skills, in line with the FAIR principles, including the mastering of the data protection legislation features.</p>		
--	---	--	--

Platesnė informacija:

<https://www.lmt.lt/lt/naujienos/priimamos-paraiskos-septyniems-h2020-moksliniu-tyrimu-infrastrukturu-konkursams/3305>

Konsultuoja

**Ekspertai „Horizonto 2020“ komitete:**

Tadas Juknevičius (Mokslo ir studijų stebėsenos ir analizės centras), tel. (8 5) 266 7602, e. p.

[tadas.juknevicius@mosta.lt](mailto:tadas.juknevicius@mosta.lt)

Gediminas Račiukaitis (VMTI Fizinių ir technologijos mokslų centras), tel. (8 5) 264 4868, e. p.

[gediminas.raciukaitis@ftmc.lt](mailto:gediminas.raciukaitis@ftmc.lt)

Tomas Šimulevič (Švietimo, mokslo ir sporto ministerija) tel. (8 5) 2191170 e. p. [Tomas.Simulevic@smm.lt](mailto:Tomas.Simulevic@smm.lt)

Asta Aleksandravičienė (Lietuvos mokslo taryba), tel. (8 676) 18 297, e. p. [asta.aleksandraviciene@lmt.lt](mailto:asta.aleksandraviciene@lmt.lt)