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1. /DFG/ DFG-RSF Cooperation: Possibility for Joint German-Russian Project Proposals in all Fields of Science, Deadline: 13 December 2021

To facilitate the support of collaborative work between German and Russian research groups, the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) and the Russian Science Foundation (RSF) have opened the possibility for joint German-Russian project proposals for a funding period of three years in all fields of science. Collaborations of research teams from both countries are invited to submit joint proposals.

At the DFG these proposals are submitted in the funding scheme „Sachbeihilfe/Research Grants" and will be reviewed in competition with all other proposals in this scheme. It is important to note that there are no separate funds available for these efforts, proposals must succeed on the strengths of their intellectual merit and teams in competition with all other proposals in the funding scheme "Sachbeihilfe/Research Grants". At the RSF the proposals will be part of an open public competition for the activity "Basic Scientific Research and Exploratory Scientific Research, Conducted by International Research Teams". All proposals will be reviewed by both organisations separately. The results of the review process will be shared between the agencies. Support will be granted for those proposals where both DFG and RSF recommend funding.

For German partners - please note, that if you are using the elan system for the first time, you need to register prior submitting your application with your complete personal and address details via elan by 6 December 2021 at the latest.

Further Information:

https://www.dfg.de/foerderung/info_wissenschaft/ausschreibungen/info_wissenschaft_21_75/index.htm

2. /EU Horizon Europe*/ Social and affordable housing district demonstrator (IA) (HORIZON-CL4-2021-RESILIENCE-02), Deadline: 25 January 2022 17:00 Brussels time

Resilience is about more than the ability to withstand and cope with shocks; it is an opportunity to undergo transitions in a sustainable and fair way. As the EU gears up to becoming a climate-neutral, circular and competitive economy by 2050, resilience will require paying attention to new vulnerabilities as entire sectors undergo deep transformations while creating opportunities for Europe's industry to develop its own markets, products and services which boost competitiveness.

Research and innovation will be fundamental to spur industrial leadership and enhanced resilience. It will support the modernisation of traditional industrial models while developing novel technologies, business models and processes. This can enhance the flexibility of the EU's industrial base, and increase its resilience by reducing EU dependencies on third countries for critical raw materials and technologies. Projects are expected to contribute among others to the following outcomes:

- Demonstrate renovation pilots in the sense of "lighthouse districts" as announced by the Affordable Housing Initiative in the Renovation Wave communication following a smart neighbourhood approach and providing blueprints for replication, setting liveability and latest technological and social innovations at the forefront;
- Mobilise cross-sectoral industrial and partnerships at local level to develop, adapt, design new processes, methods and technologies (e.g. energy efficiency, circular, modular building, smart living, eco-design etc.).

Special attention should be paid to the needs of residents in social using, through social innovation and using a human centred approach;

- Following a multi-actor approach, engaging both, different sectors and fields of operation related to construction such as renewable energy, water treatment, and electronics as well as residents, social and public housing associations and civil society actors will be key to boost tailor-made and fit for purpose innovation;
- Demonstrate through such partnerships lighthouse districts that allow integrated renovation approaches. Besides technological innovation, specific focus on social innovation is crucial as it can provide social engagement models to empower and engage residents, foster the co-design, co-development and co-implementation, offer spatial organisation allowing socio-economic activities and services, improve the wellbeing of citizens, and promote intergenerational and mixed forms of housing and accessible architecture open for cultural and creative innovation. Social innovation may also form a key aspect in developing business models for these types of lighthouse districts;
- Develop new bottom-up human-centred business models in housing area that facilitate engagement of residents in renovation - for example by co-investing, setting up energy communities, housing cooperatives and resident owned social services and (creative, green, ...) commons;

To support a wide implementation of these district renovations, industrial urban symbiosis needs to be fostered amongst most relevant partners engaged in construction and renovation of social housing facilities. The local and regional dimension is important since local energy and utility networks, adjacent industrial infrastructures and available by-products and services in such districts would have to be considered in a holistic and integrated approach. In the same way, logistics should be optimised wherever possible and should be an advantage from the sustainable and competitiveness perspective.

Technology based innovations should prove the potential for novel symbiotic renovation projects acting as demonstrators involving multiple industrial sectors (combining non-exhaustively energy, construction, renewables, circular, electronics and creative industries, social housing associations and public authorities) in pilot multi-stakeholder partnerships focussing on a district approach and social needs related to social housing. Projects are expected to address: The development of a broader integrated methodology towards renovation of social housing districts starting from a cross-sectoral approach (e.g. INNOSUP) and engagement models of residents to develop the application of technologies that make social housing more energy efficient, accessible and liveable;

- Research how technologies for housing and renovation can be adapted in a way that serves the needs of residents in social housing at affordable cost as well as how development at scale (e.g. district level of multi-apartment building) might bring cost optimisation and improve the affordability;
- The adaptation of technology in way it addresses the basic and essential needs of residents rather than to showcase the most advanced application from a technical perspective (human centred, fit for purpose and tailor made);

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2021-resilience-02-32;callCode=null;freeTextSearchKeyword=HORIZON-CL4-2021-RESILIENCE-02-32;matchWholeText=true;typeCodes=0,1,2;statusCodes=31094>

3. /EU Horizon Europe*/ Cluster 5: Sustainable, secure and competitive energy supply (HORIZON-CL5-D3-03), Deadline: 23 February 2022 17:00 Brussels time

This Destination includes activities targeting a sustainable, secure and competitive energy supply. In line with the scope of cluster 5, this includes activities in the areas of renewable energy; energy system, grids and storage; as well as Carbon Capture, Utilization and Storage (CCUS).

The transition of the energy system will rely on reducing the overall energy demand and making the

energy supply side climate neutral. R&I actions will help to make the energy supply side cleaner, more secure, and competitive by boosting cost performance and reliability of a broad portfolio of renewable energy solutions, in line with societal needs and preferences. Furthermore, R&I activities will underpin the modernisation of the energy networks to support energy system integration, including the progressive electrification of demand side sectors (buildings, mobility, industry) and integration of other climate neutral, renewable energy carriers, such as clean hydrogen. Innovative energy storage solutions (including chemical, mechanical, electrical and thermal storage) are a key element of such energy system and R&I actions will advance their technological readiness for industrial-scale and domestic applications. Carbon Capture, Utilisation and Storage (CCUS) is a CO₂ emission abatement option that holds great potential and R&I actions will accelerate the development of CCUS in electricity generation and industry applications.

Fostering European global leadership in affordable, secure and sustainable renewable energy technologies and services by improving their competitiveness in global value chains and their position in growth markets, notably through the diversification of the renewable services and technology portfolio. Ensuring cost-effective uninterrupted and affordable supply of energy to households and industries in a scenario of high penetration of variable renewables and other new low carbon energy supply. This includes more efficient approaches to managing smart and cyber-secure energy grids and optimisation the interaction between producers, consumers, networks, infrastructures and vectors. Accelerating the development of Carbon Capture, Use and Storage (CCUS) as a CO₂ emission mitigation option in electricity generation and industry applications (including also conversion of CO₂ to products).

Unter this destination the EU has published 16 calls for proposals that are open to admission:

1. AU-EU Water Energy Food Nexus (HORIZON-CL5-2021-D3-03-01)
2. Next generation of renewable energy technologies (HORIZON-CL5-2021-D3-03-02)
3. Hybrid catalytic conversion of renewable energy to carbon-neutral fuels (HORIZON-CL5-2021-D3-03-03)
4. Physics and aerodynamics of atmospheric flow of wind for power production (HORIZON-CL5-2021-D3-03-04)
5. Wind energy in the natural and social environment (HORIZON-CL5-2021-D3-03-05)
6. Novel approaches to concentrated solar power (CSP) (HORIZON-CL5-2021-D3-03-06)
7. Stable high-performance Perovskite Photovoltaics (HORIZON-CL5-2021-D3-03-07)
8. Cost-effective micro-CHP and hybrid heating systems (HORIZON-CL5-2021-D3-03-08)
9. Carbon-negative sustainable biofuel production (HORIZON-CL5-2021-D3-03-09)
10. Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices (HORIZON-CL5-2021-D3-03-10)
11. Development of hydropower equipment for hidden hydropower (HORIZON-CL5-2021-D3-03-11)
12. Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean) (HORIZON-CL5-2021-D3-03-12)
13. Demonstration pilot lines for alternative and innovative PV technologies (Novel c-Si tandem, thin film tandem, bifacial, CPV, etc.) (HORIZON-CL5-2021-D3-03-13)
14. Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes (HORIZON-CL5-2021-D3-03-14)
15. Solutions for more sustainable geothermal energy (HORIZON-CL5-2021-D3-03-15)
16. Innovative biomethane production as an energy carrier and a fuel (HORIZON-CL5-2021-D3-03-16)

Further Information:



<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D3-03;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=3103;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=43108390;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;spect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=0;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatechTableState>

4. /Sonstige/ Contact Research Funding Advice of the Otto von Guericke University Magdeburg

For questions about funding opportunities, specific calls for proposals, help with submitting applications and project support, please contact the department for Research Funding Advice/EU-University Network of the Otto von Guericke University Magdeburg.

Information on current events, funding structures and contact online at:
https://www.ovgu.de/unimagdeburg/en/Research/Advice/Research+Funding+Support/Funding+Providers/Contact+_+Research+Funding+Advice_EU_University+Network-p-66746.html
<https://www.euhochschulnetz-sachsen-anhalt.de/en/>