



MIS&S



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National Contact Point for Research Infrastructures (RIs) in Russia  
The National University of S&T MISIS

# ***CONTENT***

## ***I. OPEN INTERNATIONAL CALLS***

- ERA. Net RUS Plus Call 2017 for Innovation Projects
- Russian Science Foundation (RSF) international calls
- Coordinated call for multilateral projects 2017 under BRICS STI Framework programme
- Fulbright Arctic Initiative Application Open

## ***II. NEWS***

- International X-ray Free Electron Laser XFEL inaugurated
- FAIR-Russia Research Center
- EU-Russia Joint Science and Technology Cooperation Committee, June 2017
- Over 358 applications were submitted for the 6-th "MEGAGRANT" competition
- The Siberian researchers design key details for Large Hadron Collider
- National University of S&T MISIS to launch international laboratory for participation in CERN experiments SHiP and LHCb
- The University of the Arctic (UArctic)

## ***III. FORTHCOMING EVENTS***

- Open innovations: Digital economy. Challenges of global transformation, Moscow, 16-18.10.2017
- 10th Meeting of Group of Senior Officials on Global Research Infrastructures GSO, Moscow, 08-12.10.2017
- CREMLIN Innovation Workshop, Denmark, 10.10.2017
- The emerging leaders for the ARCTIC challenges, January 2018
- G200 Youth Forum 2017, Dubai, 06-10 December 2017
- 1- st IEEE International Conference on Industrial Cyber-Physical Systems, Saint-Petersburg, May 2018

**The goal of the call** is to create a long-term research and development collaboration in the field of innovation between EU Member States / Countries Associated to H2020 and Russia.

**The countries participating in the ERA. Net RUS Plus** Call for 'Innovation Projects' are Austria, Germany, Greece, Romania, Russia, and Turkey.

Researchers from Russia and Europe are invited to submit their ideas for the joint innovation projects. EU-Russia collaborative innovation projects can be funded in research areas thematically assigned to innovative technologies of high utilization and with a high market potential and of particular importance for the EU as well as for Russia.

The application deadline for the 'Innovation' line of the ERA. Net RUS Plus Call 2017 has been extended to **10 October 2017, 15:00 CEST.**

General information on the call and Terms of Reference (main call document, which includes all 'Specific Funding Rules') are available at: **<http://www.eranet-rus.eu/en/196.php>**

"Guide for Applicants" provides information about the procedure for the submission of project proposals:

**[http://www.eranet-rus.eu/\\_media/ERANet\\_RUS\\_Plus\\_2017\\_Guide\\_for\\_Applicants\\_Innovation\\_new\\_deadline.pdf](http://www.eranet-rus.eu/_media/ERANet_RUS_Plus_2017_Guide_for_Applicants_Innovation_new_deadline.pdf)**

More information: **<http://www.eranet-rus.eu/>**



## ***RUSSIAN SCIENCE FOUNDATION (RSF) AND HELMHOLTZ ASSOCIATION: THE SECOND JOINT CALL FOR PROPOSALS***

The Helmholtz Association and the Russian Science Foundation (RSF) laid the foundation for their cooperation in a joint “Letter of Intent” in February 2015.

The new program “Helmholtz-RSF Joint Research Groups” aims at establishing a privileged partnership between the two organizations. The objective of the program is the identification of common interests and goals in research, pursued by both the Helmholtz Association and the research institutions in Russia. The main focus is placed on the support and development of young researchers.

The program entails three calls for proposals, each of which will fund six bilateral projects. The project duration is limited to three years each and a funding amount of up to 130.000 Euro per year from the Incentive and Networking Fund of the Helmholtz Association. The Russian Science Foundation will provide equal funding.

**The first round of call** for proposals focused on the topics of Biomedicine and Information and Data Science.

**The second call for proposals was officially opened on 1 September 2017** and covers the topics of “Climate Research” and “Energy Storage and Grid Integration”.

**The deadline for applications is 30 November 2017**

**The third and final call** in 2019 will comprehend the areas of Materials and emerging technologies.

Further information is on the website of RSF: <http://www.rscf.ru/ru/contests>

or on the web site of the Helmholtz Association:

[https://www.helmholtz.de/en/current\\_topics/current\\_calls\\_for\\_applications/artikel/artikeldetail/helmholtz\\_rsf\\_joint\\_research\\_groups/](https://www.helmholtz.de/en/current_topics/current_calls_for_applications/artikel/artikeldetail/helmholtz_rsf_joint_research_groups/)

**The results of the competition will be announced on 6 July 2018.**



## ***RSF-DFG COOPERATION: POSSIBILITY FOR JOINT RUSSIAN-GERMAN PROJECT PROPOSALS IN ALL FIELDS OF SCIENCE***

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 the funding period 2019 to 2021 in all fields of science.

Collaborations of research teams from both countries are invited to submit joint proposals.

All proposals will be reviewed by both organizations 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.

**The deadline for applications is 11 December 2017.**

**Results of call will be announced in December 2018.**

Detailed information about the call and the requirements for the participants are presented on the web site of RSF: <http://www.rscf.ru/ru/contests>

and DFG:

[http://www.dfg.de/foerderung/info\\_wissenschaft/2017/info\\_wissenschaft\\_17\\_61/index.html](http://www.dfg.de/foerderung/info_wissenschaft/2017/info_wissenschaft_17_61/index.html)



## ***COORDINATED CALL FOR MULTILATERAL PROJECTS 2017 UNDER BRICS STI FRAMEWORK PROGRAMME***

The BRICS STI Framework Programme aims to support excellent research in priority areas which can best be addressed by a multinational approach.

**Coordinated call** for BRICS multilateral projects 2017 is open until **28th November 2017**.

Project consortia consisting of partners from at least **three of the BRICS countries** can apply. Thematic areas of the call include:

- Prevention and monitoring of natural disasters;
- Water resources and pollution treatment;
- New and renewable energy, and energy efficiency;
- Biotechnology and biomedicine including human health and neuroscience;
- Information technologies and high performance computing;
- Material science including nanotechnology.

Further information on the Call and application procedures can be found at the following link:

**<http://brics-sti.org/index.php?p=new/15>**

Call announcement: **[BRICS\\_STI\\_Framework\\_Programme\\_-\\_2nd\\_Call\\_2017-1.pdf](#)**

***The pilot call** under BRICS STI Framework Programme was organised in 2016. A total of **320 proposals** have been submitted in response to this call. **26 projects in 10 thematic areas** have been selected for support as an outcome of the call. Results can be found at: **<http://brics-sti.org/?p=new/12>***



## ***FULBRIGHT ARCTIC INITIATIVE APPLICATION OPEN***

Scholars and researchers from the eight Arctic Council countries — the United States, Canada, Denmark, Finland, Iceland, Norway, Russia, and Sweden — can now apply for the second Fulbright Arctic Initiative, an 18-month collaborative research program, which will begin in spring 2018 and run through the fall of 2019.

**The application deadline for international applicants is October 16, 2017**, and the deadline for U.S. applicants is October 30, 2017. Scholars can apply online through the Fulbright Arctic Initiative website.

To learn more about the Fulbright Arctic Initiative, you can register for a webinar scheduled for Wednesday, October 11, 2017 from 2 p.m. - 3 p.m. ET:

**<https://register.gotowebinar.com/register/4629122458257480194>**

For more information, visit the Fulbright Arctic Initiative website:

**<http://www.cies.org/program/fulbright-arctic-initiative>**

The Fulbright Program is the flagship international educational exchange program sponsored by the U.S. government and is designed to build relations between the people of the United States and the people of other countries that are needed to solve global challenges. The Fulbright Arctic Initiative is administered by the Institute of International Education on behalf of the U.S. Department of State and in collaboration with Fulbright Commissions and offices in the participating countries.



## ***INTERNATIONAL X-RAY FREE ELECTRON LASER XFEL INAUGURATED***

The largest and most powerful X-ray laser in world was opened in Hamburg on the 1-st of September.

The machine can generate ultrashort X-ray flashes 27,000 times per second, with a brilliance that is a billion times higher than the best conventional X-ray radiation sources.

With the help of specialized instruments, these X-rays enable completely new insights into the atomic details and extremely fast processes of the nanoworld.

Other applications lie in materials science with the development of new materials and substances, in the optimization of storage media for computers and the investigation of extreme matter conditions, such as those found within exoplanets.

**At present, 11 countries are participating in the project:** Denmark, France, Germany, Hungary, Italy, Poland, Russia, Slovakia, Spain, Sweden, and Switzerland. The UK is in the process of joining the European XFEL as the twelfth member state.

Construction of the €1.22 billion facility began in early 2009. As the host country, Germany (the federal government, the city-state of Hamburg, and the state of Schleswig-Holstein) covered 58 per cent of these costs. Russia paid 27 and the other international partners between 1 - 3 per cent.

At the opening ceremony the button was pressed to start the first ever experiment at European XFEL to determine the structure of a biomolecule. In this model experiment, the structure is already known, allowing the researchers to check that the X-ray laser and the instruments are optimally coordinated.

The first sample with unknown structure will come with users when they arrive for experiments at the facility in September.

More information: [https://www.xfel.eu/index\\_eng.html](https://www.xfel.eu/index_eng.html)





## ***FAIR-RUSSIA RESEARCH CENTER (FRRC)***

The Russian-German “FAIR-Russia Research Centre” (FRRC) was established in the Institute for Theoretical and Experimental Physics (ITEP, Moscow) in 2008.

Inauguration of FRRC has been the important stage of Russian-German cooperation development in the field of nuclear science and technique.

The aim of this project is to support mutually beneficial cooperation between the scientific groups which work on various aspects and directions of FAIR project (FAIR - Facility for Anti-proton and Ion Research), such as the accelerating physics and technologies, astrophysics, physics of plasma, the nuclear and hadron physics, the applied physics, physics fast processes occurring in materials under influence of powerful laser impulses, information technologies, etc.

This cooperation facilitates the further active integration of Russia into world and European scientific and technological space.

Recently FRRC announced two calls for applications among Russian students, PhD students and young PhDs:

- Second FRRC Call for Applications among young group leaders on antiproton and ion research for 2018-2022, participating in research work on scientific topics of FAIR, the “NICA” complex (Dubna) and the U-70 accelerator (Protvino) in educational and scientific centers of the Russian Federation,
- The Ninth FRRC Call for Applications among students, PhD students and young PhDs for 2018, who work in FAIR-related research, “NICA” Complex (Dubna) research and the U-70 accelerator research (Protvino) in educational and scientific centers of the Russian Federation

More information: <http://frrc.itep.ru/rus/index.php/en/>



## ***EU-RUSSIA JOINT S&T COOPERATION COMMITTEE, BRUSSELS, JUNE 2017***



The EU-Russia Joint Science and Technology Cooperation Committee meeting took place in Brussels on 23 June 2017, co-chaired by the Director for International Cooperation of the European Commission's Directorate-General for Research and Innovation Ms. Cristina Russo and the Director of the Department of Science and Technology of the Ministry of Education and Science of the Russian Federation Mr. Sergey Matveev.

The discussion was held in a friendly and constructive spirit.

The meeting took stock of progress made in EU-Russia cooperation in research and innovation and confirmed joint flagship initiatives in the fields of **research infrastructure, health and aeronautics**.

Russia confirmed its intention to host the EU Contest for Young Scientists in 2019 and to cooperate with the EU in Open Science policies and in young scientist exchanges.

More information: <http://ec.europa.eu/research/iscp/index.cfm?pg=russia>



## ***OVER 358 APPLICATIONS WERE SUBMITTED FOR THE SIXTH "MEGAGRANT" COMPETITION***

14 July 2017 was the deadline for the sixth grant competition of the Government of the Russian Federation designed to support research projects implemented under the supervision of the leading scientists. The competition was announced on May 5, 2017.

Grants of the Government of the Russian Federation in the amount of up to 90 million rubles each will be awarded on the competitive basis for conducting scientific research over 3 years (2018 – 2020).

Applications have been received from ~ **358** leading scientists from **41** countries of the world jointly with scientific and educational organisations in Russia: **280** applications came from institutions of higher learning, **78** - from research organizations.

**116** applications were filed by scientists with Russian citizenship.

The majority of international applicants are scientists with the citizenship of the **USA** – 35 applications, **Italy** – 21 applications, **France** – 18 applications, **Germany** – 17 applications, **Great Britain** – 16 applications, **India** – 14, **Australia** – 11.

The research areas of the participants cover all 35 science fields set by the Grant Council for federal support. The majority of research projects proposed relate to the science fields of: Computer and Information Science (29), Physics (28), Material Technology (28), Biology (23), Earth Sciences and Related Environmental Sciences (20).

**Winners of the competition will be notified no later than 15 November 2017.**

Further information: <http://www.p220.ru/home/news/item/1309-6-350>



## ***THE SIBERIAN RESEARCHERS DESIGN KEY DETAILS FOR LARGE HADRON COLLIDER***

Scientists from the Tomsk Polytechnic University (TPU) have created a mounting fixture for the SciFi tracking detector to further upgrade the Large Hadron Collider (LHC).

The new fixture detail will be delivered to the European Organization for Nuclear Research (CERN) before the end of September.

The details will serve as a fixture for the moving elements of the SciFi tracking detector parts which will be assembled on the detecting complex LHCb (Large Hadron Collider beauty experiment). In the course of experiments, the detector must move with all the details being placed at strictly defined positions within the accuracy of a micron. To achieve such precision, the Tomsk researchers developed an overhead system, railing, and tray (slide), with which the detectors will move along the Collider.

LHCb is one of the main detectors at the Large Hadron Collider. For instance, it was involved in experiments on the asymmetry of matter and antimatter in interactions of b-quarks (the so-called "beautiful quarks").

Over the past two years, the TPU has become an active member of six large CERN collaborations and, additionally is a member of four important experiments. In particular, Tomsk physicists have joined the upgrading efforts for the LHC.

Another research group is working on enhancing the gas detectors and their introduction to the industry as a part of the RD51 collaboration. The third group of Tomsk Polytechnic University scientists has joined the work of the international research collaboration, NA64, on the super-proton synchrotron (SPS) which is exploring the dark matter.

More information: <http://tass.com/science/966320>



## ***NATIONAL UNIVERSITY OF S&T MISIS TO LAUNCH INTERNATIONAL LABORATORY FOR PARTICIPATION IN CERN EXPERIMENTS SHiP AND LHCb***

NATIONAL UNIVERSITY OF S&T MISIS (NUST MISIS) has become a member of an ambitious project **SHiP (Search for Hidden Particles)** provided by European Center for Nuclear Research (CERN) in 2015.

The purpose of the new experiment is to find an explanation for phenomena not described by the Standard Model of elementary particle physics: the existence of dark matter and the absence of antimatter in the Universe. Currently SHiP is a collaboration of 52 institutes from 17 countries.

In June 2017 MISIS has joined the **LHCb**, the other CERN experiment, the aim of which is to explore what happened after the Big Bang that allowed matter to survive and build the Universe we inhabit today.

About 812 scientists representing 72 different universities and laboratories from 16 countries are involved in the LHCb project (June 2017).

Currently NUST MISIS plans to launch a laboratory to implement four major projects - two of them under LHCb experiment and the other two - under SHiP collaboration. About 30 highly-qualified professionals from both Russia and abroad will work on the implementation of these projects.

It is expected that the laboratory will be opened at the end of 2017 and the projects will be successfully completed by 2020.

Within the framework of NUST MISIS and CERN collaboration, NUST MISIS and the University of Naples Federico II will launch a joint PhD program to train specialists for CERN. It is expected that the University of Zurich and the Imperial College in London will also join the PhD program.

The agreement on the establishment of the joint graduate program will be signed in early October 2017.

More information: <http://en.misis.ru/university/news/5-100/2017-06/4695/>





## ***THE UNIVERSITY OF THE ARCTIC (UArctic)***

The University of the Arctic (UArctic) is a cooperative network of universities, colleges, research institutes and other organizations concerned with education and research in and about the North.

UArctic builds and strengthens collective resources and collaborative infrastructure that enables member institutions to better serve their constituents and their regions. Through cooperation in education, research and outreach UArctic enhances human capacity in the North, promotes viable communities and sustainable economies, and forge global partnerships.

**Members of UArctic:** Canada, Denmark, Faroe Islands, Finland, Greenland, Iceland, Norway, Russia, Sweden, United States.

UArctic also has members from outside the Arctic states, who nevertheless share the same commitment to promoting higher education and research in the Circumpolar North.

In September 2017 the University of the Arctic (UArctic) has entered into an official partnership with UNESCO (United Nations Educational, Scientific and Cultural Organization) as a non-governmental organization.

More information: **<http://www.uarctic.org/>**



***OPEN INNOVATIONS: DIGITAL ECONOMY.  
CHALLENGES OF GLOBAL TRANSFORMATION.***

***Moscow, October 16-18, 2017***

**15000**  
**participants**

**700**  
**speakers**

**99**  
**countries**

**150**  
**interactive sessions**

**Day 1 Corp Tech**

Digital transformation of businesses; traditional industries changing under new technology trends; new management paradigm; new industries, companies and economic models; agenda of business leaders; business generation and restructuring

**Day 2 State Tech**

Govtech as a new technology market; digital transformation of public administration; national digital economy strategies and cases; public sector as a technology consumer — health; education; aerospace; human capital for new economy

**Day 3 Human Tech**

Genetic technologies; robotics; AI and their social implications; values and culture of tech world; youth and kids; new generation of entrepreneurs; new consumer values and markets

Agenda is available at: <https://forinnovations.ru/en/>



## ***10<sup>TH</sup> MEETING OF GROUP OF SENIOR OFFICIALS ON GLOBAL RESEARCH INFRASTRUCTURES***

The 10th Meeting of Group of Senior Officials (GSO) on Global Research Infrastructures (GRI) will be held in the Russian Federation on October 9-12, 2017:

National Research Centre «Kurchatov Institute» (NRC KI, Moscow, ), Joint Institute for Nuclear Research (JINR, Dubna) and the Petersburg Nuclear Physics Institute named by B.P. Konstantinov (PNPI, Gatchina).

The organiser of the event is the Ministry of Education and Science of the Russian Federation.

The official language is English.

The GSO proactively works to identify opportunities for international collaboration among Research Infrastructures that are proposed by its members: it has identified five Case Studies and has carried out an analysis on their potential as Research Infrastructures for global collaboration.

Since March 2011, the GSO has been chaired once by the European Commission, the United Kingdom and Australia, and twice by South Africa, Germany and Italy. The current Chair is Italy; forthcoming host is the Russian Federation for the 10th GSO Meeting in October 2017 in Dubna, followed by the United States of America in Spring 2018 and the United Kingdom in Autumn 2018.

Web site of the event: <https://gso.msk.ru/>



***THE EUROPEAN SPALLATION SOURCE.***  
***CREMLIN INNOVATION WORKSHOP***

The main aim of **CREMLIN Innovation Workshop**, under WP8, Task 8.4 of the CREMLIN Project, is to focus on the importance of innovation and to highlight the positive impact of innovation activities in the EU-Russian cooperation at the level of Megascience facilities. The Workshop will be based on the exchange of best practice, with the main orientation to stimulate mutual learning and to identify recommendations for improving the innovation infrastructure.

To ensure the best possible results, to share their practices, the workshop shall get together experts from existing European, Russian and international platforms and initiatives with representatives from the Russian and European Megascience facilities participating in the CREMLIN project to help them strengthen the impact of their research by learning from each other how to approach various challenges of managing innovation within the domain of their respective organizations. The workshop will be focused on the innovation potential and industry collaboration possibilities for the Megascience projects, including industrial users, technology transfer and links to the regional innovation system around the Megascience facilities.

**Date:** 10 October 2017

**Venue:** Glass Hall, Building 101, Anker Engelundsvej 1, 2800 Lyngby, Denmark

More information about the workshop: <https://indico.esss.lu.se/event/852/page/0>

More information about the CREMLIN Project under the link: <https://www.cremlin.eu/project/>

# ARCTIC FRONTIERS

## ***THE EMERGING LEADERS FOR THE ARCTIC CHALLENGE 2018***

**Emerging Leaders** will take place from 17 – 23 January 2018.

Thirty selected candidates from different countries will participate in a blend of technical, social and cultural events accompanied by mentors from business, politics and academia.

The program is linked to the topic of Arctic Frontiers 2018 “Connecting the Arctic” and includes the following sessions:

- Session 1: Politics and Security in the High North
- Session 2: Technology Development and Arctic Business
- Session 3: Connecting the Arctic
- Session 4: Workshop, preparing a presentation

The program starts in the city of Bodø, then continues onboard the Norwegian Coastal Express “Hurtigruten” and ends in Tromsø, “the gateway to the Arctic”. To explore the marine resources and potential in the Lofoten Islands, a stopover will be made in Svolvær. The participants will be challenged to engage in discussions and presentations during the program.

**Deadline for registration 1 October 2017.**

More information: <http://www.mynewsdesk.com/no/arctic-frontiers/news/invitation-to-participate-in-the-emerging-leaders-for-the-arctic-challenge-2018-258710>



## ***G200 YOUTH FORUM 2017***

**The G200 Youth Forum** will be one of the largest international events organized for the youth from around 200 countries in 2017, and over 300 young leaders, students and academics, representatives of the business world and parliaments will participate in it.

The G200 Youth Forum 2017 will have five main platforms which will run in tandem with each other:

- G200 Youth Summit – resulting in the Communiqué;
- Conference – with publication of academic articles in the Conference Proceedings;
- International Young Parliamentarians’ Debate – with Joint Statement;
- G200 Young Professionals Platform - resulting in the Perspectives;
- G200 Entrepreneurs Platform – best practices exchanges;
- Joint Sessions of the G200 Youth Summit, Conference and International Young Parliamentarians’ Debate participants – with Joint Sessions reports.

**Venue:** Dubai, the United Arab Emirates

**Date:** 06-10 December 2017

This is the 12th year of the Forum. In 2006 and 2013 the event was held in Saint-Petersburg.

More information: <http://www.g200youthforum.org/>



УНИВЕРСИТЕТ ИТМО



## ***1-ST IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL CYBER-PHYSICAL SYSTEMS (ICPS 2018)***

The aim the IEEE Conference on Industrial Cyber-Physical System is to provide a platform to exchange research and innovation results, lessons learned from industrial practices associated to new paradigms and technologies such as Cyber-Physical Systems, Digital Economy, Industries 4.0, Digitalization of the Industry and the Industrial-Internet-of-Things, among others.

Topics within the scope of the conference will include, but are not limited to:

Engineering Methods and Tools for ICPS; Life Cycle and Value Stream for ICPS;

ICPS Architectures and Standards; ICPS Interoperability;

Connectivity OT/IT in ICPS; Robotics and ICPS;

Internet-of-Things, Internet-of-Services and ICPS;

Control and Management in ICPS; Security in ICPS;

Education in ICPS; Digitalization and ICPS;

ICPS and HMI; Safety in ICPS; ICPS Applications.

**Conference dates: May 15-18, 2018.**

Website of conference: **<http://icps2018.net/>**

More information: **<http://allconferencecfpalerts.com/cfp/view.php?eno=8874>**

The logo for MIS&S is located in the top left corner. It features the text "MIS&S" in a bold, black, sans-serif font. To the right of the text is a stylized graphic consisting of a blue arc at the top, a blue circle in the center, and two concentric grey circles below it. The entire logo is set against a background of decorative elements: a green swirl at the top left, a light blue balloon-like shape in the middle left, and a purple balloon-like shape at the bottom left. Yellow triangular shapes are scattered around these elements, resembling confetti or light rays.

**MIS&S**

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