



KAZAN FEDERAL UNIVERSITY INTERNATIONAL ACTIVITY REPORT 2019

issued by the International office of KFU



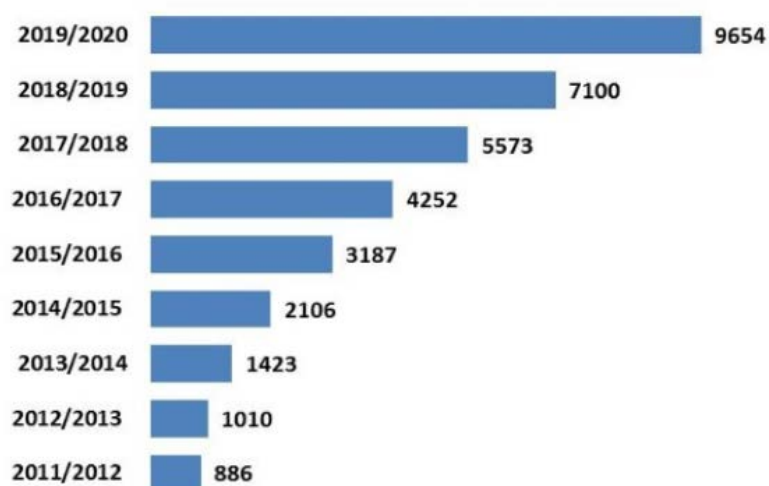
Kazan, April 2020

The strategic objective of Kazan Federal University is to enhance its prestige, raise academic and R&D reputation, and achieve a high international level of its academic programs and global leadership in the priority research areas in order to enter the world Top-100 universities.

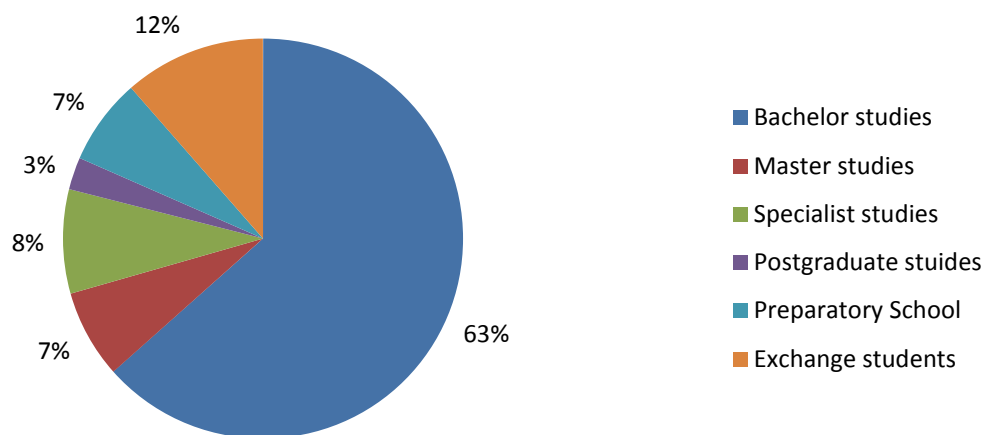
Integration of Kazan Federal University (hereinafter - KFU) into international academic and research environment as well setting its positions at the international level are provided for through the implementation of the following mechanisms: development of partnerships and network cooperation with leading universities, world research centers and organizations; invitation of international staff members and students; extending mutual academic mobility; participation at international projects and collaborations, entering international academic alliances and associations, holding at KFU international high-impact events and carrying out target-oriented information campaign.

ACADEMIC EXPORT

One of the main priority areas of Kazan Federal University's activity makes the development of **academic export** leading to continuous growth of the number of international students at university and providing for KFU being amongst top Russian universities as far as this indicator is concerned. **9 654** international students from **106** countries took their studies at KFU in 2019: including **8 717** taking main educational programs (Bachelor, Master, Specialist degrees), **192** enrolled in postgraduate studies and **8** were the students of Residency. The split according to the form of studies was the following: government scholarship (special quota) based studies – 682, budget-funded studies – 643, tuition fee-based studies – 7592. The percentage of international students among the general number of students taking studies under main educational programs (Bachelor, Master, Specialist degrees) has reached 22% (18, 8 % at the main University) in the reporting year.



Dynamics of international student number at KFU (all programs and forms of education)



International students at KFU, different levels of studies, 2019

The countries of Central Asia, including Uzbekistan, Kazakhstan, Tajikistan, Turkmenistan, became the target region for KFU in 2019 when it comes to the enhancement of the potential of its academic export. The cooperation with these countries is being developed in the framework of Eurasian Economic Union, interstate agreements at the level of the Russian Federation and owing to the consolidation of economic and socio-humanitarian ties of the Republic of Tatarstan. Bilateral academic mobility of staff members and students, implementation of joint educational programs, participation at research and academic events, holding career-guidance events and subject Olympiads have outlined the main spheres of partnership. The increase of the amount of international students from Central Asia served an outcome of the active promotion of the KFU brand in the region: in the reporting year **6739** students from Kazakhstan, Uzbekistan, Tajikistan and Turkmenistan studied at KFU (70% of the total percentage of international students).

In 2019 in the framework of the events oriented at the **international students recruitment** KFU took part in **11** international educational exhibitions and publicity tours, including:

- XX Kazakhstan International Exhibition “Education and career – 2019”, April 4-6, 2019, Almaty, Kazakhstan;
- The 31st Annual EAIE Conference, September 24-27, 2019, Helsinki, Finland;
- 13th Azerbaijan International Education Exhibition, October 10-12, 2019, Baku, Republic of Azerbaijan;
- International exhibition and scientific conference “Education and sport in the epoch of power and happiness”, November 14-15, 2019, Ashkhabad, Republic of Turkmenistan;
- Days of Russian Education in Finland and Estonia (under the auspices of Rossotrudnichestvo), November, 30 - December, 01 2019, Helsinki, Finland, Tallin, Estonia.

Apart from that, the external advising sessions dedicated to the admission issues were organized in Uzbekistan, Tajikistan, Kazakhstan and Kyrgyzstan. Currently Kazan Federal University possesses **62** agreements concluded with recruiting agencies, the majority of which operate on the territory of Asian, Latin American, Middle Eastern countries.



The 31th Annual EAIE Conference, 24-27 September, 2019



Meeting principals from Jinan city schools and representatives from recruiting companies of Shandong province, China, December 14, 2019



KFU delegation at Days of Russian Education in Finland and Estonia, November, 30 - December, 01 2019



KFU delegation at the International exhibition and scientific conference "Education and sport in the epoch of power and happiness", November 14-15, 2019, Turkmenistan



Contest for the best congratulation messages at the social media, Tashkent office of Kazan Federal University at the National University of Uzbekistan, November 30, 2019



KFU delegation at the India-Russia Education Conference organized by the Embassy of India (February 25, 2019)

As an active participant of the "Export of Education" Federal project Kazan Federal University obtained governmental support for implementation of the project "Leading information campaign to attract foreign nationals to study at institutions carrying out educational activities in higher education programs, including on the terms of targeted training" (State Contract № 075-15-2019-1806 of November 22, 2019).

Project's aim is to form a positive image of Russia and Russian education as well as to attract foreign nationals to getting Russian university degrees through the international promotion of regional education system of the Republic of Tatarstan and Kazan city as one of the top student and sports center in the world.

Information campaign, oriented at the creation of a favourable image of Russia and Russian education and attracting foreign nationals to pursue studies in Russia, including the organization of

the events on informational coverage of the export potential of Russian higher education institutions, embraced the following activities:

- holding meetings and newsworthy events (press conferences, advertising campaigns, expert interviews, etc.);
- establishing direct contacts and celebrate joint events with leading centers of secondary education (schools) from abroad;
- organizing and holding events, oriented at the selection of talented prospected students at the target regions and countries through international Olympiads;
- joint campaigns with Russian and foreign organizations, involved into the process of international recruitment,
- joint events with regional organisms (structures) of the Republic of Tatarstan through representative offices and trade houses abroad;
- joint events with foreign representative offices and consulates at the Republic of Tatarstan;
- making publications in the media (printed press, digital media, Internet) based on the already celebrated and prospective events.

Main results of the program:

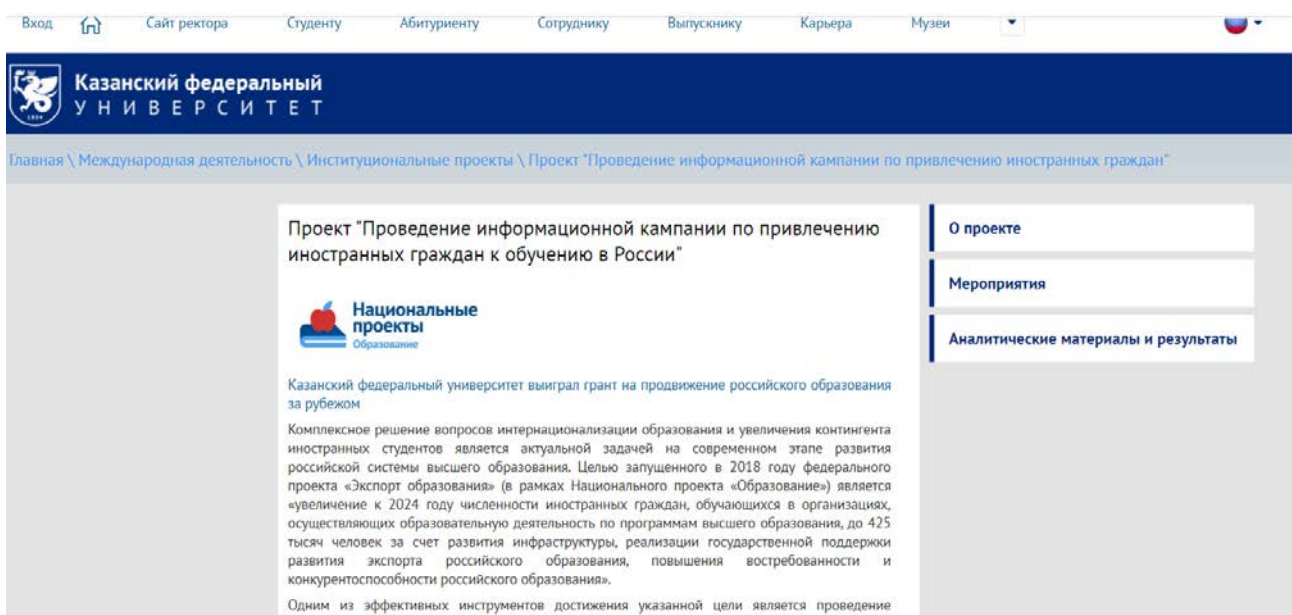
- Design of the concept of an information campaign under the implementation of the “Export of education” Federal project.
- Design of the concept of an information campaign in the framework of a regional project at the level of Republic of Tatarstan.
- Design of the methodology of conducting social research applicable to the media image of a university.
- Analysis of Russia’s media-image at the priority countries for Russian academic export and media presence of the top Russian Universities at home and foreign media and Internet platforms.
- Creation of media and Internet platforms database for materials dissemination in the framework of information campaign.
- Design of a media plan template for 2020 information campaign of Russian universities for 2020
- Information campaign celebration that embraced the design and use of the information materials and footage in Russian, English, Chinese languages.
- Drawing up recommendations on the enhancement of the results in the field of information support of export potential of Universities and the implementation of the “Export of education” Federal project.

Analytical materials designed in the course of the project and the results of works were presented and discussed at four working sessions involving the participation of the expert group’s members, as well as representatives of the The Federal Agency for the Commonwealth of Independent States, Compatriots Living Abroad, and International Humanitarian Cooperation (Rossotrudnichestvo), representatives of the regional authorities, top Russian Universities – participants of 5-100 Project and other Russian universities, participants of the “Export of education” Federal project, top Russian and international experts in the field of higher education management, representatives of Russian and foreign media.

The countries of Central Asia (first and foremost, Kazakhstan, Uzbekistan, Tajikistan, Turkmenistan), China and Finland were chosen as the target regions for carrying out the information campaign of Tatarstan Universities. The choice of these regions and countries owes to the fast developing relations between Russia and BRICS countries (China) as well as CIS countries

(Kazakhstan, Uzbekistan, Tajikistan), and to the active involvement of cultural cooperation with national diasporas, residing in various European countries (like Finland, for instance). Moreover, the regions and countries, traditionally having vast representation among international students of the Universities of the Republic of Tatarstan were taken into account.

In the framework of the promotional strategy for target regions and countries during the course of the project an effective interaction system of all key regional factors in the sphere of international students' recruitment was built: regional universities – participants of the project, regional authorities, Russian and foreign partner organizations, including media.



Kazan Federal University continues developing international cooperation in the sphere of design and implementation of **joint (network) academic programs**. In the reporting year **54** joint academic programs, including **31** main academic programs (Bachelor, Master and Postgraduate studies), leading to obtaining double degree in partnership with top international universities, scientific organizations and companies were carried out. Altogether **275** students and postgraduates, including **163** international ones, took double degree programs at KFU in 2019; at the same time **12** Russian and international graduates obtained diplomas of KFU and partner universities.

Meanwhile KFU is constantly increasing the number of **academic programs in the foreign (English) language** – **23** Bachelor, Master, Specialist and Postgraduate programs of this type were carried out at KFU in the reporting period with **3** new programs (Bachelor and Master levels) launched in 2019. The Bachelor program “Economics and international business”, implemented at the Institute of management, economics and finance in English language and having 58 students, including 10 international ones, is worth a special mentioning. The peculiarity of this project is in the fact that starting from the second year KFU students get the opportunity of pursuing online studies at London School of Economics and Political Sciences (UK). Upon successful completion of the examination tasks, the students get double diploma at graduation.

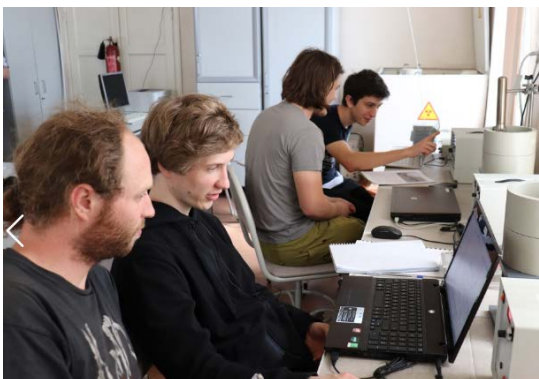
The growing amount of academic programs, possessing **international accreditation**, also influences the recruitment of international students. **2** Master programs of the KFU Institute of management, economics and finance obtained the accreditation of the leading international agencies in 2019:

- “Accounting, audit and financial consulting” program was recognized by The Association of Chartered Certified Accountants – ACCA) (accreditation valid for the period of 2021-2025);
- “Business and management” program was recognized by the Chartered Institute of

Management Accountants (CIMA).

The total number of academic programs carried out at KFU in 2019 and possessing international accreditation makes **19**.

KFU continues an active cooperation with international companies in the framework of **supplementary professional education** development. As per the Contract for advanced training signed in 2018 with the Cuban company Tecnomatica (CUPET), 154 directors and specialists of the Company took studies at KFU in 2019 (KFU Center for advanced training, quality management and marketing acted as the academic organizer). The staff members of oil companies from Kazakhstan and Belarus participated at the mobile training programs.



Laboratory practice of the students from the University of Innsbruck at the KFU Institute of physics (July 2019)

«Petroleum engineering» double master degree program with Imperial College London (UK) is carried out at KFU. BP and Rosneft top petroleum companies are the partners of the program



Staff members of Buzachi Operating Ltd» (Kazakhstan) petroleum company took their studies at the Center for advanced training, quality management and marketing of the KFU Institute of geology and petroleum technologies (November 2019)

Master students from Kanazawa University (Japan) had their internship at Ford Sollers Elabuga and at the Elabuga Institute (September 2019)





The project in the framework of the interstate agreement for CUPET company specialists training continued at KFU. The second group of CUPET staff members arrived to KFU in 2019 for taking studies at the “Development of deposits of unconventional carbohydrates” master program at the KFU Institute of geology and petroleum technologies

Ruth Ilesanmi, a Nigerian postgraduate student, was conferred first international KFU PhD degree at the Department of Clinical Psychology and Personality Psychology of the KFU Institute of Psychology and Education



Graduation of the first international Bachelor program “Linguistics. Russian as a foreign language” at the KFU Institute of philology and intercultural communication (June 2019)

One of the priority areas of the KFU international cooperation development is the increase of the international mobility programs. **803** international students from **37** countries (except for the international students enrolled at the main academic programs) were recruited for studying at KFU in the reporting period in the framework of **international mobility increase**. The most fruitful collaboration in the field of student mobility is carried out with the Universities of China, Japan, Germany, Republic of Korea, Kazakhstan, and Italy. **18 new agreements**, aimed at the student exchange between KFU and top international universities of Germany, Spain, Japan, Turkey, Uzbekistan and other countries as well as the increase of incoming student mobility were signed in the reporting period.

2019	1174
2018	926
2017	645
2016	485
2015	436
2014	272

TOP 5 countries (students)

China – 248

Germany – 65

Republic of Korea – 50

Japan – 45

Kazakhstan – 44

Dynamics of the international students' incoming mobility at KFU, 2014-2019



Summer internship of Kanazawa University (Japan) students at KFU under the Training Program for Russia-Japan Innovative Leaders of Tomorrow of the Ministry of education, culture, sport and science of Japan



VI International archeological school based at the Bolgar State Historical and Architectural Museum-Reserve organized involving KFU participation, August 19-27, 2019 (93 participants from 10 countries)



International summer school "Bolgar dialogue of cultures" at KFU celebrated on August 16-28, 2019 (30 students from 7 countries)



International ecological and technological summer school for international students at the KFU Elabuga Institute, organized under the grant of the Ministry of enlightenment of the Russian Federation (July 2019)

ACADEMIC MOBILITY OF KFU STAFF AND STUDENTS

The increase in participation of KFU staff and students at the programs of **international academic mobility** is achieved through general University exchange agreements with 92 universities from 26 countries under Erasmus+ Program, as well as "Algarysh" Grant program of the Republic of Tatarstan Government jointly with DAAD German Academic Exchange Service. **291** KFU students obtained funds for participation at the KFU international mobility programs, including **254** students granted scholarships for studies and internships at Partner Universities in the framework of academic exchange agreements.

Academic mobility of KFU students

Year	Student exchange (minimum 1 semester)	Internship (including language internships)	Participation in events (conferences, forums, etc.)	Other mobility programs	TOTAL
2019	248	36	35	2	291

In the reporting year the most active cooperation in the field of student exchange was developed with the Universities of Germany (66 students), China (54 students), Japan (37 students), Poland (26 students), Republic of Korea (24 students), Czech Republic (21 students).



Students of the Faculty of foreign languages and Faculty of Philology and History of KFU Elabuga Institute during their internship at the University of West Bohemia in Pilsen, Czech Republic (October 2019)

Master students of the "Intelligent Robotics" program of KFU Higher School of Information technologies and Intellectual Systems during their internship at the Kanazawa University and Japanese IT-companies



KFU students as the participants of Volga-Yangtze Youth Forum at the town of Liling (July 23, 2019)

In the framework of various academic mobility programs **943** visits abroad of Kazan Federal University staff members involving the participation of **510** academic and scientific staff members took place in the reporting period. KFU staff members visited **445** foreign educational and scientific organizations from **68** countries, including **84** leading universities and organizations that enter TOP 400 of various international University rankings such as QS, ARWU, THE and others.

Most visits of KFU staff members were organized to the following countries: Germany (100 people), Uzbekistan (65 people), Great Britain (54 people), Kazakhstan (52 people), Turkey (44 people), China (41 people), Italy (39 people), Spain (38 people), Tajikistan (36 people), Japan (35 people), USA (32 people), France and Czech Republic (27 people each).

In the reporting period international academic mobility of scientific and pedagogical staff members took the following forms:

- advanced training/ research stay (carrying out research, material collection for scientific research, getting to know breakthrough research methods) – **303** visits;
- delivering advanced training and professional retraining programs (reading lectures, carrying out supplementary professional educational programs, educational programs design, discovering educational technologies and teaching methods, participation at language internships, etc.) – **44** visits;
- another categories of academic mobility, approved by the University legal acts, establishing the necessary procedure for academic mobility (participation at scientific events, administrative visits, negotiations and others) – **596** visits.

Academic mobility of KFU staff by purpose and regions of visits (2019)

Purpose – number of staff members	Regions of visits – number of visits
events – 596	Europe – 532
Internship, research – 303	Asia – 355
lectureship - 44	North America – 35
	Africa – 16
	Latin America – 5

In the reporting period there was the increase in participation of the University staff members **at the advanced training programs**, including research stays at the following leading foreign Universities: *Belgium* (University of Leuven), *Great Britain* (Oxford University, University of Cambridge, London School of Economics and Political Science, University of Nottingham), *Germany* (Humboldt University Berlin, Ludwig-Maximilian University, Technical University Dresden, Free University of Berlin), *Singapore* (National University of Singapore, Nanyang University of Technology), *USA* (Yale University, Cornell University, Texas A&M University), *Finland* (University of Helsinki), *France* (University of Grenoble-Alpes), *Switzerland* (Swiss Federal Institute of Technology), *Japan* (Tokyo University of Technology, University Okayama, Kyoto University) and others.

One of the mechanisms that has been most actively developed is the grant support under international, national and regional academic mobility programs. In the framework of “Algarysh” Grant program for studies and internships abroad belonging to the Government of the Republic of Tatarstan 15 visits of KFU staff members to the Universities of Germany, France, USA, Great Britain, Belgium and Finland were organized in 2019. 26 KFU staff members had short-term internships at Partner Universities of Great Britain, Czech Republic, Poland, Turkey, Belgium and Spain under Erasmus+ exchange programs.



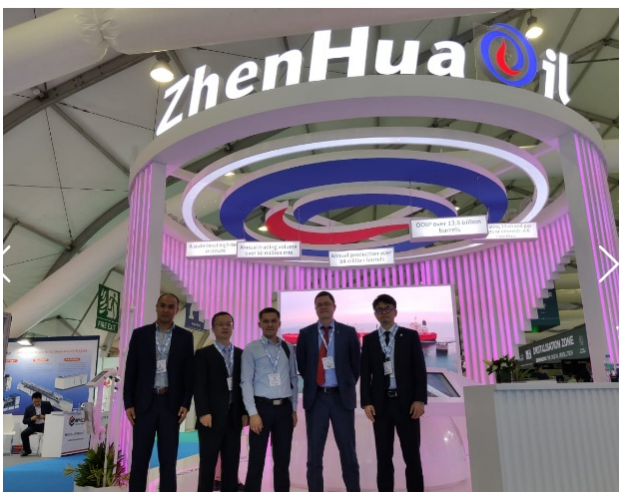
The internship of Evgeni Magid, professor of the Higher School of Information technologies and Intelligent systems at the Faculty of Electronic Engineering of the Czech Technical University in Prague, July 2019



Daria Khanolainen, research fellow of the Research Centre “Educational Studies” of the Institute of psychology and education won the scholarship for studies and work at the Jyväskylä University (Finland)

Participation of KFU staff members and students at the **international scientific and academic events** is considered as an essential factor for promotion of research and development achievements of Kazan scholars as well as for the University’s reputation enhancement at the global academic community level. In the reporting period KFU staff members took part in **360** international scientific events, including symposia, conferences, seminars held abroad and gave plenary and poster presentations.

Rector of KFU presented the experience of Kazan University in the field of teacher training at the World Education Research Association (WERA) Focal Meeting, in Tokyo, Japan (August 5-8, 2019)



The staff members of the KFU Institute of geology and petroleum technologies took part in ADIPEC-2019 Conference, one of the main platforms in the petroleum field for business and information exchange, United Arab Emirates (November 2019)

KFU representatives participated in the events of the European Digital Week, held in Belgium, Italy and Poland (November 2019)



Lilia Ilikova, Deputy Director for Research of the KFU Institute of International relations took part at the OSCE Expert session on history and interethnic relations, Hague, the Netherlands (September 2019)

Staff members of the KFU Laboratory of intelligent Robotic Systems (LIRS) took part at the RoboCup Asia-Pacific 2019, international robotics championship of Asia-Pacific Region (November 6 – 11, 2019)



KFU young scholars took part at «UK-Russia Genome Workshop 2019», joint international school organized by KFU and University of Nottingham (UK) under the British Council grant (September 16-18, 2019)

Scholars of KFU took part in the international forum of European Educational Research Association (ECER-2019), University of Hamburg, Germany (September 2-6, 2019)

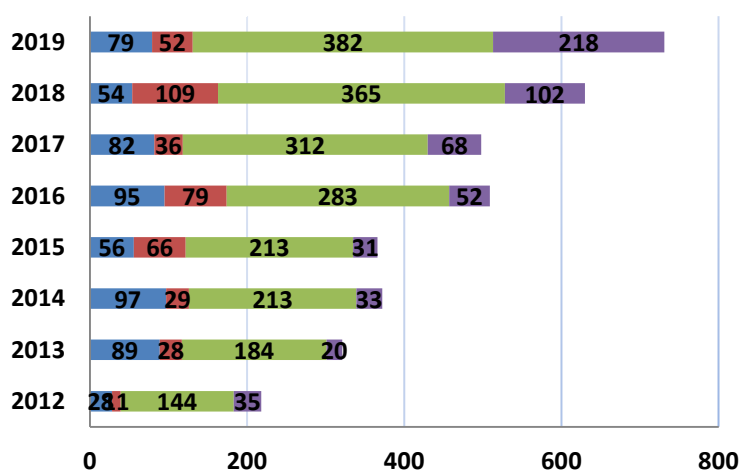


Scholars of the Higher School of Information Technologies and Intelligent Systems (Department of Intelligent Search Systems) and Research laboratory “Chemoinformatics and Molecular Modelling” took part in the 57th annual conference of Association for Computational Linguistics (ACL), Florence, Italy (July 28 –August 2, 2019)

KFU INTERNATIONAL STAFF

731 international experts from 63 countries visited KFU in 2019 for various purposes, among them 52 specialists arrived for research, 79 – for lectureship, 382 – for participation in scientific and educational events held at KFU, 218 – within the framework of administrative visits, for negotiations and other purposes. The biggest number of international staff came from People’s Republic of China (129), Germany (67), Iraq (62), Japan (51), UK (47), USA (28), Poland (26), France (25), India (20).

Within the reporting period 121 foreign specialists, namely professors, teachers and researchers worked at Kazan Federal University for more than 6 months.



TOP 5 countries (number of visitors)

China – 129
Germany – 67
Iraq – 62
Japan – 51
UK – 47



Public lectures at the Institute of Philology and Intercultural Communication of KFU, given by prof. Holger Kuße, head of the Department of History of Slavic Languages and Linguistics of the Institute of Slavic Studies of TU Dresden, member of the Academy of sciences and literature, Mainz (Germany)

Francisco Lobo, chief researcher of the Institute of Astrophysics and Space Sciences of the University of Lisbon (Portugal), gave a lecture “Black holes: new horizons” (November 28, 2019) at the Institute of Physics of KFU



Visit of Martin Blunt, professor of the Imperial College of London (UK), to the Institute of Geology and Petroleum Technologies of KFU. Within a week foreign specialist gave a lecture course on Petroleum Engineering for master degree students, held a public meeting with the students and teaching staff of the Institute and also took part in the University Digital Transformation Forum, which was held by KFU jointly with Times Higher Education

Awarding ceremony of Lobachevsky Medal and Prize to Daniel T. Wise, Canadian mathematician (McGill University, Montreal) for the solution of the famous virtually Haken conjecture, December 2019





Awarding ceremony of International Zavoisky Award (KFU is one of the founders of the award) to prof. Hitoshi Ohta (Kobe University, Japan) for his contribution to constructing terahertz devices for high-field electron paramagnetic resonance and their applications in solid state physics (September 26, 2019)

Participants of Russian-German seminar “Interaction: from Cell to Human” held at KFU within the framework of ceremonial events dedicated to the 30th anniversary of partnership between KFU and Justus Liebig University Giessen, Germany (May 21-23, 2019)

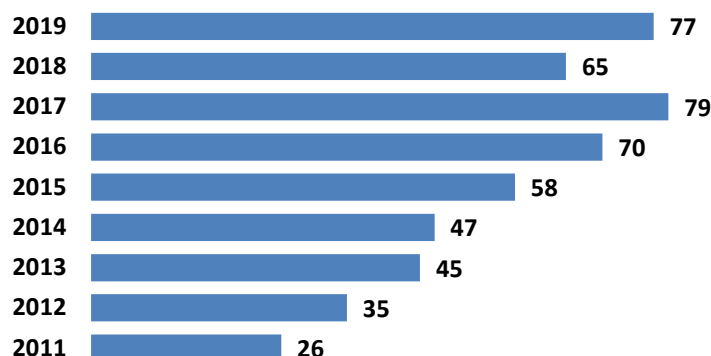


INTERNATIONAL RESEARCH ACTIVITY

In 2019 KFU staff members participated in **77** major **international research and academic projects** in cooperation with international organizations, functioning in the field of science and education, for example:

- Small molecule stabilizers/activators of mutant p53 (2019-2020), together with University of Southampton (United Kingdom), within the framework of joint grant of Russian Foundation for Basic Research (RFBR) and The Royal Society, (London, UK);
- Damage recovery Management Information System for Floods and Landslides with Distributed Heterogeneous Group of Robots (2019-2021), together with Kyoto University (Japan) and Mahidol University (Thailand), within the framework of RFBR grant;
- Digital economy in Russia and abroad: legal control, perspectives of global integration (2019-2021), together with University of California (USA), Goethe University Frankfurt (Germany) and University of Kiel (Germany), within the framework of grant of Russian Science Foundation (RSF);
- Classroom Cultural Diversity Climate (2019-2021), together with University of Potsdam (Germany), within the framework of grant of German Research Foundation (DFG) and others.

DYNAMICS OF A NUMBER OF JOINT INTERNATIONAL PROJECTS OF KFU, 2011-2019



Within the reporting period KFU scholars continued participation in **12** international scientific collaborations. Among them:

- LearningToTeach – in cooperation with universities of USA and Great Britain – International networked study supported by the World Association for Educational Research (WERA);
- FANTOM – Global Scientific Consortium (includes 48 scientific organizations from more than 20 countries), aimed at creating an atlas of gene expression in all cells and tissues of the human body;
- ThEOR – International platform for creation and distribution of revolutionary “green” EEE-technologies of in-situ oil refining, bringing together 300 specialists from 47 companies and universities of 12 countries (Russia, China, USA, Canada, France, Turkey, Denmark, Indonesia and countries of Latin America);
- Spectrum-Roentgen-Gamma – International Russian-German orbital observatory project.

In 2019 **25 scientific units**, founded in cooperation with international organizations and scholars, were functioning in KFU. Among them: joint laboratory KFU-RIKEN Translational Genomics Unit (in cooperation with RIKEN, Japan), Center for Translational Medicine KFU-RASA (in cooperation with University of Pennsylvania and Fox Chase Cancer Center, USA), International Associated Laboratory “Developmental Neurobiology” (in cooperation with INSERM INMED, France), Research laboratory “Space Navigation and Planetary Studies” (in cooperation with Shanghai Astronomical Laboratory, China, National Astronomical Observatory of Japan, Abastumani Astrophysical Observatory, Georgia, Laboratory of high-speed calorimetry (in cooperation with the University of Rostock, Germany) and others.



Scholars of the Institute of Chemistry of KFU and RIKEN (Japan) developed a promising method of drug delivery to cancer cells with the use of ruthenium. The results of their work were published in Nature Catalysis

<https://www.nature.com/articles/s41929-019-0317-4>

International project “Magnetic resonance study of gas diffusion in nanoporous materials: the effect of gas-wall interactions” became one of the seven winners of the RSF competition “Research, Conducted by International Research Teams” in cooperation with ANR (National Research Agency), France.

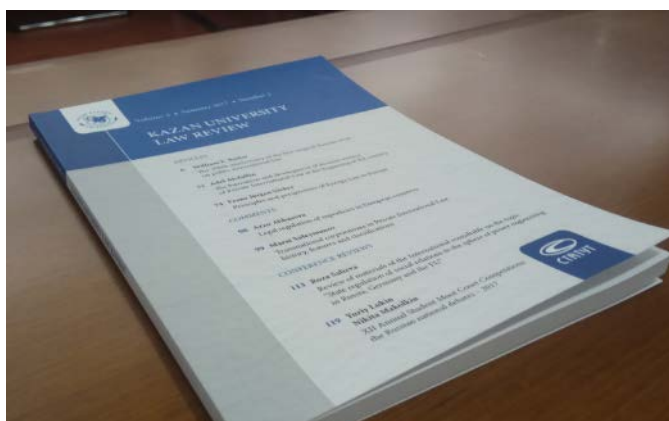
Project team consists of staff members of the Magnetic Resonance and Quantum Electronics research laboratory of the Institute of Physics of KFU and Laboratoire Kastler Brossel of Ecole Normale Supérieure



Scholars of KFU, FEPU (Far East Federal University) and Mayo Clinic (USA) developed unique spinal rehab technology. The work is a continuation of a research published Nature Medicine, which showed the possibility of enabling motor activity after complete spinal cord injury

Astronomers of KFU participate in International Russian-German orbital observatory project - Spectrum-Rentgen-Gamma.

Russian- Turkish optical telescope of KFU RTT-150, installed in the mountains of Turkey (TUBITAK astronomical observatory), is one of several ground-based Russian telescopes that participates at global cooperation on optical identification and observation of new X-ray sources, detected by Spectrum-RG orbital observatory



Journal of Kazan Federal University “Kazan University Law Review” was included in European Reference Index for the Humanities and Social Sciences (ERIH PLUS) by the decision of ERIH Expert panel

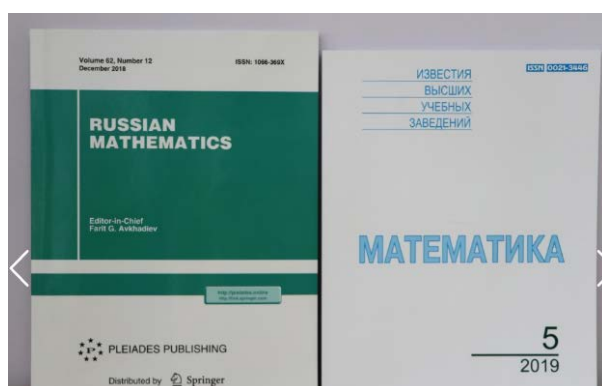
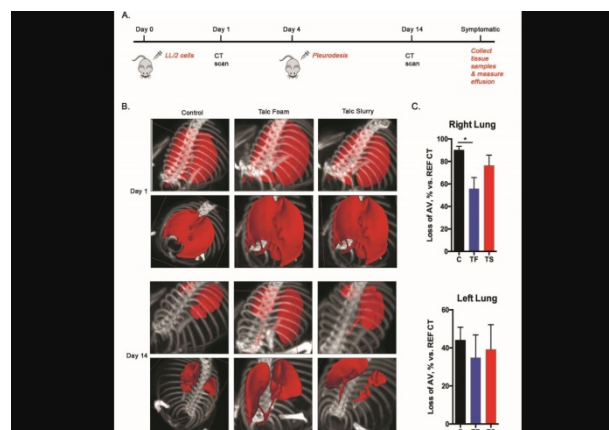
Christoph Schick, professor on the University of Rostock (Germany), receives honorary doctorate from Kazan Federal University (November 15, 2019).

Prof. Christoph Schick is an internationally recognized specialist in the research of polymer physics with the use of calorimetry and a leading researcher at the laboratory of ultrafast calorimetry founded in KFU within the framework of the Mega-Grants project



Joint research of scholars of the Institute of Physics of KFU and Czech Technical University in Prague in the field of astrophysics and launch of nanosatellites within the framework of KFU priority area (Strategic Academic Unit) “Astrochallenge”

Scholars of Kazan Federal University (research laboratory “Molecular and Biochemical Bases of Pathogenesis and Therapy of Cancer Diseases”) together with American colleagues from Fox Chase Cancer Center in Philadelphia (USA) created talcum-based solution that enables protection of lungs from accumulation of liquid in cases of cardiovascular and cancer diseases (project of RSF, 2019)



According to the results of 2018 journal “Russian Mathematics” became the first journal on mathematics among publications of Russian educational institutions to enter Q2 of Scopus database

Participation of KFU staff members in joint Russian-Mongolian expedition to Biybulag settlement, Mongolia (July, 2019)



Kazan Federal University is a ground for large-scale **international events**, many of which were held in Russia for the first time. KFU hosted **96** international scientific conferences, seminars and symposia in 2019. The following events can be mentioned among the largest and most representative, specifically by the number of international participants:

12th International conference IEEE Developments in e-Systems Engineering (DeSE) (October 7-10, 2019) – 257 participants (100 international participants) – Higher School of Information Technologies and Intelligent Systems. The conference was organized in cooperation with Liverpool John Moores University, IEEE association and Naberezhnye Chelny Institute of KFU, having a status of a conference supported by IEEE association.

International conference “Modern Geometry and its Applications – 2019” (September 4-7, 2019) – 117 participants (35 international participants) – Nikolai Lobachevsky Institute of Mathematics and Mechanics of KFU.

IV International Forum on Teacher Education (IFTE-2019) (May 28-30, 2019) – 760 participants (90 international participants) – Institute of Psychology and Education of KFU.

Fourth meeting of authors of “IPCC Special Report on the Ocean and Cryosphere in a Changing Climate” (March 3-9, 2019) – 150 participants (140 international participants) – Institute of Environmental Science of KFU.

Kazan Golovkinsky Stratigraphic Meeting 2019 “Late Paleozoic Sedimentary Earth Systems: Stratigraphy, Geochronology, Petroleum Resources” (September 24-28, 2019) – 229 participants (15 international participants) – Institute of Geology and Petroleum Technologies of KFU.

XI International Conference “Near-Earth Astronomy and Space Heritage” (September 30 – October 4, 2019) – 180 participants (28 international participants) – Institute of Physics of KFU. The Conference was organized in cooperation with the Russian Academy of Science.

The Third Symposium of the BRICS Association on Gravity, Astrophysics and Cosmology (29.09-3.09.2019) – 179 participants (38 international participants) – Institute of Physics of KFU with the support of BRICS Association on Gravity, Astrophysics and Cosmology.

International research conference “Historical, Cultural and Scientific Heritage of Astronomical Observatories: Formation of the Outstanding Universal Value of Sites” within the framework of an International Forum for Preservation of the Historical and Cultural Heritage and the Development of UNESCO World Heritage Sites in the Republic of Tatarstan (December 2-7, 2019) – 100 participants (38 international participants) – Institute of Physics of KFU. The conference was organized under the auspices of the Government of the Republic of Tatarstan,

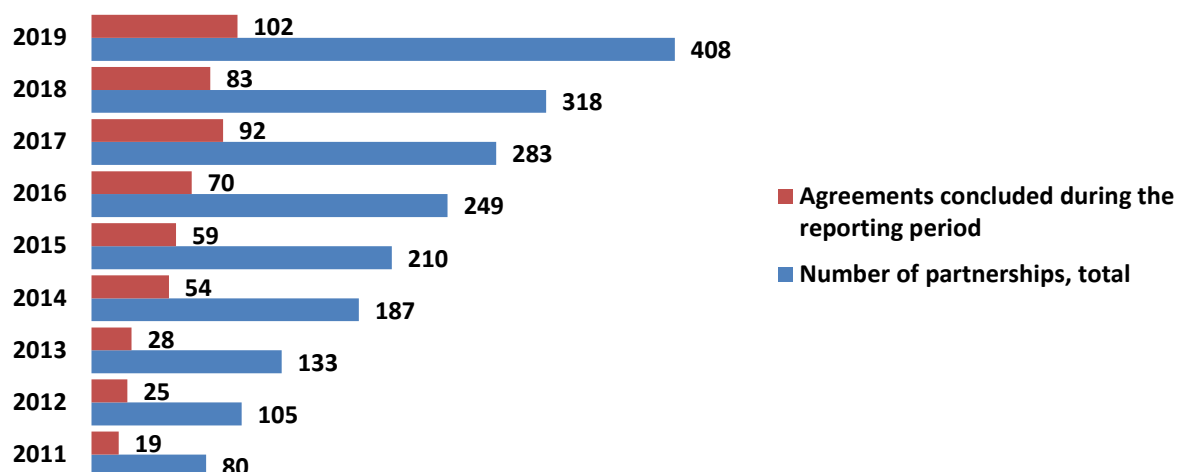
Russian Academy of Sciences and Commission of the Russian Federation for UNESCO of the Ministry of Foreign Affairs of the Russian Federation, with the support of Russian Foundation for Basic Research.

3rd International Seminar on Advanced Calorimetry (ISAC 2019) (October 15-18, 2019) – 51 participants (18 international participants) – Alexander Butlerov Institute of Chemistry of KFU.



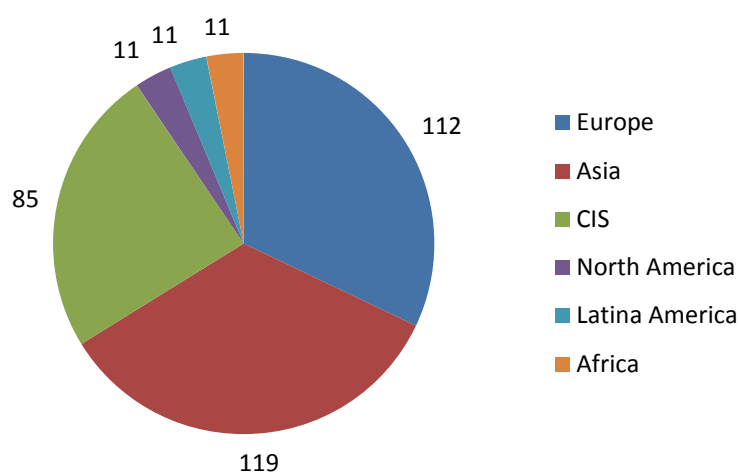
COOPERATION DEVELOPMENT

Development of strategic partnership and networking with world's leading research, educational and innovative organizations is one of the key objectives of KFU. Within the reporting period another **102** agreements were signed. As a result at the moment KFU is cooperating with **408** international partner universities, research and academic centres and companies from **70** countries.



Dynamics of cooperation with international partners, 2011-2019.

33 partner universities of KFU were ranked Top 300 in the Times Higher Education and QS World University Rankings, among them: Imperial College London and University of Nottingham (Great Britain), Trinity College (Ireland), KU Leuven and University of Antwerp (Belgium), Ludwig Maximilians University of Munich, Humboldt University of Berlin, Technical University of Dresden (Germany), the University of Helsinki and the University of Tampere (Finland), University of Bologna and the Sapienza University of Rome (Italy), The University of British Columbia (Canada), Beijing Normal University (People's Republic of China), the University of Tsukuba and Keio University (Japan) and others.



KFU's international partners 2019, by regions



Awarding of a “golden diploma” of KFU, which is normally given to strategic partners of the university, to Joybrato Mukherjee, President of Justus Liebig University Giessen, within the framework of ceremonial events dedicated to the 30th anniversary of partnership between Kazan Federal University and Justus Liebig University Giessen, Germany (May 23, 2019)

Delegation of the Institute of International Relations participated in the 84th annual meeting of Society for American Archeology and conducted negotiations with leading archeologists and paleogeneticists of Harvard Medical School, University of Oklahoma, St. Cloud State University, USA (April 10-20, 2019)



Signing of a Cooperation Agreement with EJAAD and Deleel Petroleum LLC (Oman), October 28, 2019



Signing of a Memorandum of Understanding between KFU and Arab University of Science and Technology (SAR)



Visit of the delegation of KFU to Kindai University (Japan), October 2019



Visit of the delegation of Chinese media holding Shanghai United Media Group (People's Republic of China) to the Higher School of Journalism and Media Communications of KFU (September 2019)



Visit of the delegation of KFU to the Kingdom of Morocco with the aim of strengthening academic and scientific ties between KFU and University of Abdul Malik Al-Saadi, December 2019



Signing of an Agreement between KFU and National University of Uzbekistan on the expansion of the list of double diploma programs (November 2019)

In 2019 Kazan Federal University joined **2 international academic associations**: BRICS Association of Gravity Astrophysics and Cosmology (BRICS-AGAC) and Institute of Electrical and Electronics Engineers (IEEE). Thus, by the end of the reporting period Kazan Federal University is a member of **29** international academic associations.

OFFICIAL VISITS

85 international delegations visited KFU in 2020. Negotiations with the University administration were conducted, research and academic potential of the university was shown, and public lectures for staff members and students were carried out during these visits. Official visits included: intergovernmental delegations (OSCE), government delegations (Turkey, France, Uganda, Uzbekistan, Turkmenistan, Philippines and others), representatives of diplomatic corps of foreign countries (Republic of South Africa, Italy, Egypt, Finland), university delegations (Austria, Bulgaria, People's Republic of China, France, Turkey, Uzbekistan, Kazakhstan, Japan and others), representatives of international companies and educational institutions (Japan, Germany, People's Republic of China, Cuba and others).

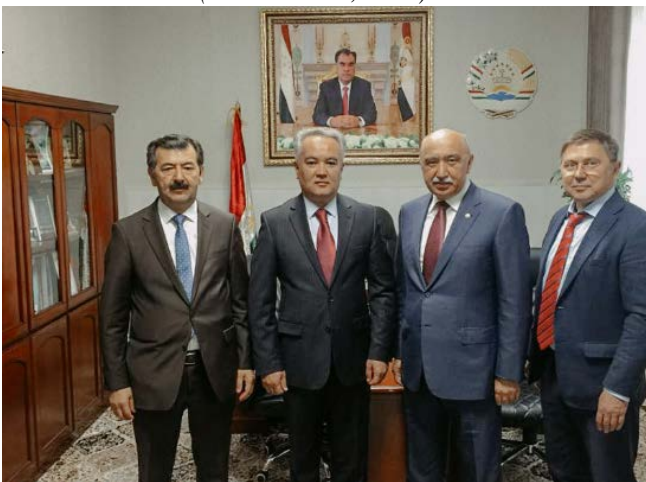
One of the reasons for a considerable amount of official visits of international delegations to KFU is that 45th WorldSkills Competition was held in Kazan in 2019.



Public lecture of Mikko Hautala, Plenipotentiary Ambassador of Finland to the Russian Federation, at KFU (November 27, 2019)



Visit of delegation of Hanns Seidel Foundation headed by prof. Ursula Männle, retired Bavarian Minister of State for Federal Affairs (Germany), September 2019



Official visit of KFU delegation headed by Ilshat Gafurov, rector of KFU, to Tajikistan (August 30 – September 3, 2019)



Official visit of delegation of Jiangxi Association of Science and Technology (People's Republic of China), October 24, 2019



Visit of delegation of the Republic of Singapore to KFU during the 45th WorldSkills competition, August 27, 2019



Visit of delegation of the Republic of Uganda to KFU during the 45th WorldSkills competition, August 24, 2019



Delegation of OSCE headed by Lamberto Zannier, High Commissioner on National Minorities, to KFU (July 24-25, 2019)



Public lecture of Mr. Zhang Ruimin, Chairman and CEO of Haier Group, at KFU, August 29, 2019

KFU IN RANKINGS

An important measure of KFU success is its position in international university rankings. According to the **QS World University Rankings 2019**, Kazan University occupies the following positions:

🚩 QS World University Rankings – 392



- ❖ QS (BRICS countries) – 60
- ❖ QS (Emerging Europe and Central Asia) – 36
- ❖ QS subject rankings: *Education* – 201-250; *Linguistics* - 201-250; *Mathematics* – 301-350; *Art and Humanities* – 345; *Physics and Astronomy* – 351-400; *Social Sciences and Management*– 365.

Positions of KFU in the international ranking **Times Higher Education World University Rankings 2020**:

🚩 THE (university) rankings – 601-800



- ❖ THE (Emerging Europe and BRICS countries) – 134
- ❖ THE subject rankings: ***Education* – 94**; *Business and Economics* – 176-200; *Art and Humanities* – 251-300; *Physics and Astronomy* – 301 – 400; *Life Sciences* – 401 – 500.

In 2019 THE launched a new global ranking, **THE Impact Rankings**, that captures the impact of higher education on delivering United Nations' Sustainable Development Goals. KFU entered TOP 100 occupying **37th** position in impact ranking for “Climate action”.

In 2019 KFU was ranked 783 in the world prestigious ranking **U.S. News Best Global Universities**. It has also moved up in the subject rankings on *Physics* – 514, and *Chemistry* – 482. At the same time KFU strengthened its position in the world **TOP 150** universities in the *Space Sciences* subject area (114th position).

THE Digital Transformation Forum was held on November 26-27, 2019 in Kazan Federal University within the framework of cooperation with the Times Higher Education. The forum was attended by 140 participants. There were representatives of Russian and foreign universities, international ranking agencies, major foreign companies and mass media from Russia, UK, Finland, China, Kazakhstan, Turkey and other countries among the list of participants.

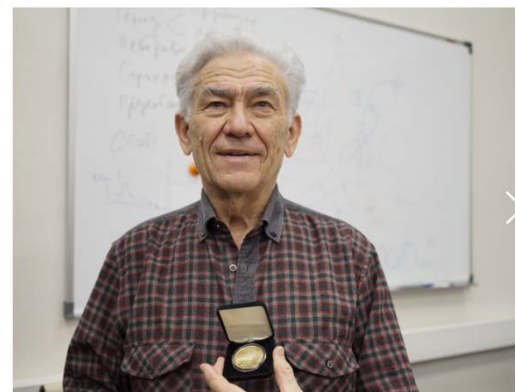


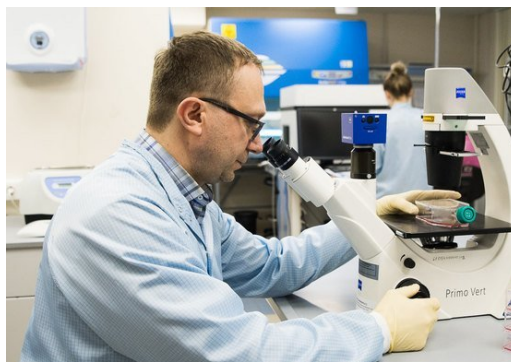
INTERNATIONAL ACHIEVEMENTS

- **Nur Mansur** (Syria), master degree student of the Institute of Fundamental Medicine and Biology, won the Young scientists competition held within the framework of III International Congress, dedicated to A.F. Samoilov “Fundamental and Clinical Electrophysiology. Current Issues of Arrhythmology” (April 5-6, 2019).
- **Roza Valeeva**, professor of the Institute of Psychology and Education, was given an award from the International Janusz Korczak Association for her contribution to humanistic pedagogy (June 2019).
- **Albert Rizvanov**, Director of the Clinical research Center for Precision and Regenerative Medicine, corresponding member of the Tatarstan Academy of Sciences, became an honorary professor of fundamental medicine at the University of Nottingham (United Kingdom).
- **The Museum of Archeological Woods** took the “Gold” for its multimedia solutions at the International Committee for Audiovisual, New Technologies, and Social Media (AVICOM) of the International Council of Museums (ICOM) award (August 28, Shanghai, China).
- Ildar Gainullin and Azat Ismagilov, students of the **Lyceum named after N. Lobachevsky of KFU**, became winners of the International Olympiad Romanian Master of Informatics – 2019, held in Bucharest, from October 9th to October 12th, 2019.
- Swiss scientific journal **Symmetry** of the Multidisciplinary Digital Publishing Institute included the article “Relativistic Neutron Stars: Rheological Type Extensions of the Equations of State”, written by physicists of KFU together with Armenian colleagues, in the list of winners of the competition related to the 10th anniversary of the journal and publishing of 1000 papers.
- Institute of Applied Astronomy of the Russian Academy of Sciences based on the decision

of the International Astronomical Union of April 6, 2019 named the planet No. 451138 after **Naufal Rizvanov** (1930-2012), alumnus and professor of Kazan University, specialist in astrometry and celestial mechanics.

- Students of **IT Lyceum of KFU** became winners of the XI International Tournament in Informatics held in Shumen, Bulgaria on November 21-25, 2019.
- **Ilshat Makhmurov**, student of Yelabuga Institute of KFU, took bronze at European Powerlifting Championship held in Kaunas, Lithuania.
- **Albert Aganov**, Head of the Department of Medical Physics, professor of the Institute of Physics of Kazan Federal University was awarded the gold medal of Yerevan state University “For his great contribution to the development of physics of the Yerevan State University and in connection with the 100th anniversary of the founding of Yerevan state University”.
- **Folk song ensemble “Zarnitsa”** of the Institute of Philology and Intercultural Communication took Grand Prix of II International Vocal Competition IMUSIO-2019





INTERNATIONAL OFFICE

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International Office express their high gratitude to all active participants of international cooperation – colleagues from Kazan Federal University and all the foreign partners, both old and new ones, for their trust in the potential of the oldest Russian university and its role in global scientific and educational space!