SAMARA
UNIVERSITY

Samara National
Research University

SPACE

FOR LIFE

Samara National Research University (Samara University) is one of the leading universities in Russia. Its high official status is confirmed in the regulatory documents of the Government of the Russian Federation and recognized by the academic community.

The university is using the model of the digital entrepreneurial university for its current development, and it is ultimately responsible for social advancement. “Space for life” is a key element in the University development program. This strategic project is aimed at improving human living conditions and increasing human life environmental quality due to the effective innovative space technologies.

Samara University was founded

in 1942.

In 2015,

it merged the staff of the aerospace (SSAU) and classical (SSU) universities, having become the rightful heir to their remarkable achievements and traditions.

SAMARA UNIVERSITY

Since 2009, Samara University has been listed among

29 **Russian national research universities.**

From 2013 till 2021, the University was the participant of the program for improving the competitiveness of Russian universities among the world's top scientific and education centres ("5-100" Project).

priority2030^

leaders are made, not born

In 2021, it joined the participants of the "Priority-2030" State Strategic Academic Leadership Program.

Schools of Advanced Engineering Studies

In 2022, it won the federal competition for the development of Advanced Engineering Schools in partnership with high-tech companies.

The scientific and education fields of Samara University cover aerospace technologies, engine building, modern methods of information processing, fundamental, technical and natural sciences, as well as economics, management, legal studies, philology, history, psychology, social studies and other humanities.

TODAY, THE ACADEMIC STRUCTURE OF SAMARA UNIVERSITY CONSISTS OF:

8 institutes

8 faculties

84 departments

THE SCIENTIFIC RESEARCH STRUCTURE OF SAMARA UNIVERSITY CONSISTS OF:

11 research and development (R&D) institutes;

53 R&D laboratories;

31 scientific and education centres;

7 design bureaus;

5 research equipment sharing centres;

2 engineering centres.

- The total number of students is over **17 000 people.**

  Also, at Samara University there are **600** graduate students and **8 000** students doing coursework in continuing professional education.

- The educational process is conducted by more than **1 514 instructors.**

  Among them there are **226** doctors of science and professors, **749** candidates of science and associate professors; **19** full-time lecturers have a PhD degree.

- **280 educational programs** will be available for the students, including over **90** bachelor's degree programs, **15** specialist's degree programs, **90** master's degree programs and **56** post-graduate training programs and **12** programs of secondary vocational education.

Samara University is one of the most dynamically developing Russian institutions of higher education.
It can be found in the leading Russian and international ratings.

QS WORLD UNIVERSITY RANKINGS

QS World University Rankings – **ranks from 1001 to 1200**

QS World University Rankings by Subject – Mechanical, Aeronautical and Manufacturing Engineering – **ranks from 501 to 530**

QS EECA University Rankings – **rank 110** in the general ranking and **rank 22** in the Russian part of the list

THE WORLD UNIVERSITY RANKINGS

Times Higher Education (THE World University Rankings) – **ranks from 1201 to 1500**

THE World University Rankings by Subject – Engineering Sciences and Technologies, Computer Sciences (Informatics) and Physical Sciences – **ranks from 601 to 800**

THE Impact University Rankings – **ranks from 801 to 1000**

SAMARA UNIVERSITY AND SAMARA REGION

History of Samara National Research University

1942

The Aviation Institute, which in 2015 became the heart of today's Samara University, was opened in Samara (then known as Kuibyshev) in October 1942. By that time, the city had become the evacuation centre for roughly 30 aircraft industry enterprises and establishments. The large-scale production of the Ilyushin IL-2 ground-attack aircraft started. In its turn, the Kuibyshev Aviation Institute became the foundry for the engineers of these enterprises.

1957

In the post-war years, Samara became the cradle of outer space exploration. It is here where the legendary "Vostok" rocket was manufactured. By means of that rocket the first ever man-in-space flight was made. Since 1957, KuAI has been training specialists of space-rocket equipment.

For many years, Samara University has been inseparably linked to the industrial and economic development of the region, which is one of the leading domestic and global centres of aerospace technologies.

1966–1969

In the mid-1960s, a group of professors from Samara universities and employees of scientific and research institutions developed proposals on the basis of which Decree of the Council of Ministers of the USSR on establishing of the Kuibyshev State University was passed. The solemn opening ceremony of the Kuibyshev State University was held in September 1969. In the 90s, the University changed its name, Samara State University (SSU).

2013

Samara State Aerospace University (SSAU) was among the 15 first winners of the "5-100" Project competition. That was Russian initiative of academic excellence aimed at increasing the competitiveness of leading Russian universities among the world's leading research and educational centres. Based on the results of two competitions, 21 leading Russian universities participated in the Project.

On April 19, the "Soyuz-2.1a" launch vehicle, launched from the Baikonur Cosmodrome, put the "Aist" small spacecraft into orbit as one of the additional cargoes together with the "Bion-M No. 1" satellite.

On December 28, the new "Soyuz-2.1v" light-weight rocket delivered "Volga" launch unit to orbit with the second "Aist" small spacecraft.

2015

The order of the Ministry of Education and Science of Russia was issued on the basis of which SSAU and SSU were merged in November.

2016

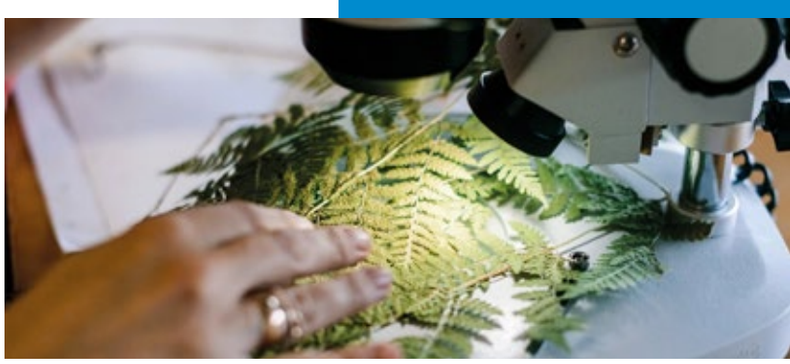
On April 6, the united Institute got its present name, Samara National Research University (abbreviated name – Samara University).

Today, Samara is the home to all manner of modern space equipment. These are rocket engines, Earth satellites and the "Soyuz" launch vehicle family, the most reliable in the history of space exploration, that regularly carry the crews to the International Space Station.

2016

On April 28, at the first launch, the “Aist-2D” small spacecraft was put into orbit from the new Russian cosmodrome, the Vostochny Cosmodrome. It was created by the scientists of Samara University and engineers from the “Progress” Rocket Space Centre.

The “SamSat-218” nanosatellite developed by Samara scientists and students, was put into orbit together with “Aist-2D”.



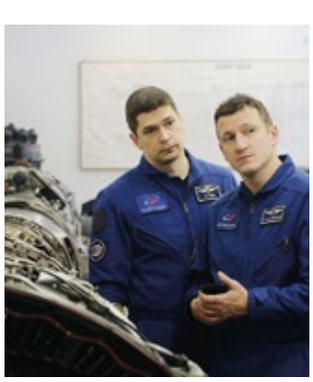
2021

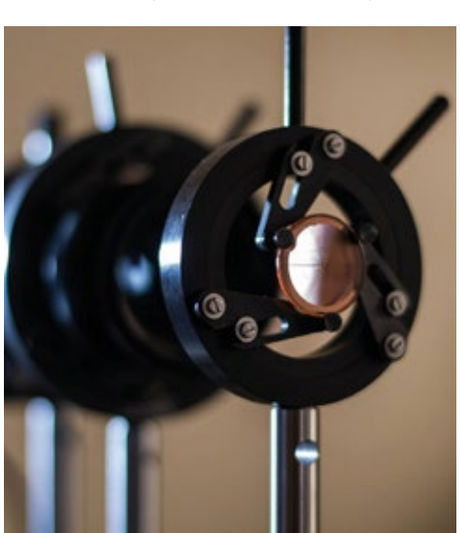
Based on the results of the federal competition, the University joined the ranks of participants of the “Priority-2030” State Strategic Academic Leadership Program. The key element of the University program is the strategic University project called “Space for Life”. It is aimed at improving human living conditions and increasing human life environmental quality due to the effective widespread implementation of innovative space technologies.

2022

In May, Samara University was granted the status of a flagship university by the State Space Corporation ROSCOSMOS.

In June, it was among the country’s 30 universities that had won the federal competition for development of Advanced Engineering Schools in partnership with high-tech companies. The Advanced Engineering Aerospace School (AEAS) of the University was established in partnership with “Progress” Rocket Space Centre JSC, United Engine Corporation-Kuznetsov PJSC, United Engine Corporation JSC, Aviacor-Aviation Plant JSC. The AEAS is aimed at training new engineering staff who have broad competencies and profound knowledge of digital technologies and who are able to solve prospective tasks on transformation of the existing production facilities and creating new competitive products in the aerospace sector.





In August, the first Russian hyper spectrometer for nanosatellites developed at Samara University was put into orbit.

2023

On June 27, the scientific nanosatellite “SamSat-ION” made at Samara University was put into the intended orbit from the Vostochny Cosmodrome.

SAMARA REGION

Samara is a welcoming and bustling megapolis, the scientific, industrial, educational and cultural centre of Russia.

The population of Samara city is approximately 1,2 million residents. It is the country's sixth largest city.

KURUMOCH INTERNATIONAL AIRPORT is one of the largest in the country. Its annual passenger traffic is over 1 million people. Up to 15 regular flights are operated daily to Moscow. All in all, the flight geography covers over 80 directions, including foreign flights.

SAMARA RAILWAY STATION is the tallest railway-station complex in Europe. Its height, including spire, soars to a total of 101 metres.

The city's surviving architectural heritage represents one of the richest and most vibrant ensembles in modern Russia. The dominant architectural styles are the Art Nouveau and Eclecticism of the late 19th - early 20th centuries, as well as the Post-Modernism of the 20th century.

In Samara, there are three dozen different museums: from the legendary Stalin's Bunker and Samara Space Museum to smaller private thematic collections.

Samara regularly hosts Russian and international festivals, sports competitions and other events.

In early July, the outskirts of the regional capital – Mastryukovskiye Lakes – are the annual gathering spot for lovers of bard songs. The festival bears the name of Valery Grushin, who was the student of the Kuybyshev Aviation Institute.

The Samara embankment length is 5 kilometres.

The city features

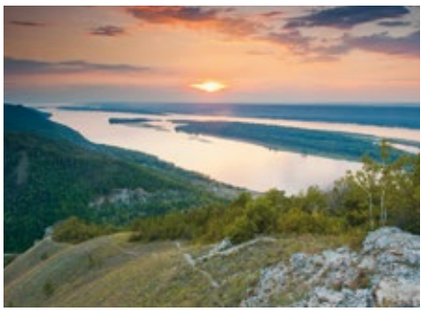
10 parks and gardens,

over **20** parkettes and avenues,

and a total of **17** squares, including Kuibyshev Square, which is one of the largest in Europe.

Samara theatre life is vibrant and full. There are several dramatic repertory theatres, opera and ballet theatre. Samara is a regular stop on tours by leading Russian and foreign theatres.

Samara boasts a high number of original landmarks, from small sculptural forms to larger monuments and memorials, as well as several monuments to technical achievement.



Samara is a multidenominational city of many faiths. It is home to Russian Orthodox, Catholic and Anglican churches, the Armenian Apostolic Church, mosques, a synagogue and other religious institutions and centres.

The 5,000-seater international interuniversity campus is being built in Samara near the Samara Solidarity Arena stadium.

The interuniversity campus will become a point of attraction for the talented students not only from the Samara region but also from other country regions and foreign countries. Samara University is the key beneficiary of this project, 3,000 seats out of 5,000 ones are provided for Samara University students.

INSTITUTES

INSTITUTE OF AEROSPACE ENGINEERING

IAE
INSTITUTE OF AEROSPACE ENGINEERING

The Institute of Aerospace Engineering (IAE) is the only institute in the country that provides for training specialists in the areas representing all stages of the aviation and space-rocket engineering life cycle including scientific researches, modelling, design, analysis, engineering design, manufacture, operation and maintenance. The IAE gives the opportunity to get a high-quality and in-demand profession in the advanced global industry.

The IAE graduates are proficient in the modern computer technologies, means of mathematic simulation and computer-assisted design.

INSTITUTE OF ENGINE AND POWER PLANT ENGINEERING

IEPPE
INNTITUTE OF ENGINE AND POWER PLANT ENGINEERING

Institute of Engine and Power Plant Engineering (IEPPE) trains engineers of the future demanded in all industry sectors. It is an engineering and technical education with a dynamically changing approach that meets the modern requirements of engineering training.

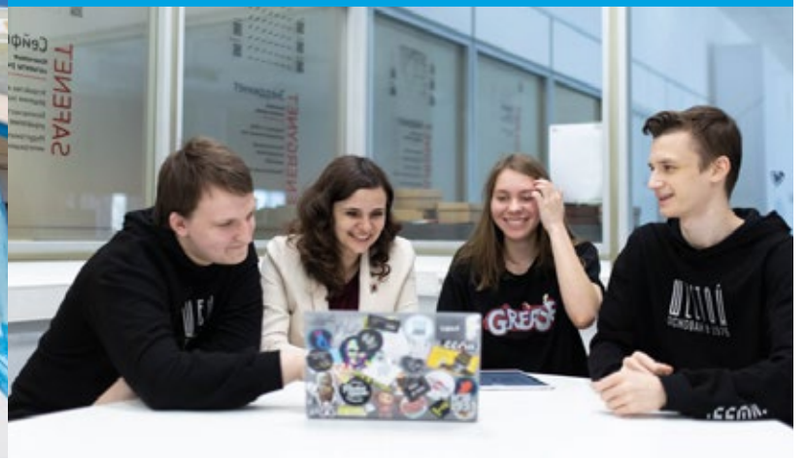
The IEPPE graduates have a profession of an engineer in the field of propulsion engineering (aviation, rocket, industrial) or in the field of automation and robotics, additive technologies, production management, energy saving and cryogenic systems.

INSTITUTE OF INFORMATICS AND CYBERNETICS

IIC
INSTITUTE OF INFORMATICS
AND CYBERNETICS

The Institute of Informatics and Cybernetics (IIC) trains specialists in the field of development of software and hardware for processing, transfer, storage, use and transformation of information using artificial intelligence technologies, as well as in the areas associated with electronics, instrumentation engineering and biotechnical systems and technologies.

The institute range of training directions includes everything that is related to informatics and cybernetics as the sciences dealing with management of information and complicated information systems.



INSTITUTE OF NATURAL SCIENCES AND MATHEMATICS

INSM
INSTITUTE OF NATURAL SCIENCES
AND MATHEMATICS

The Institute of Natural Sciences and Mathematics (INSM) has a strong focus on the interdisciplinary studies which provide the knowledge integrity and guarantee a specialist's mobility in the future. Here the education is aimed at forming research competencies in the field of mathematics, mechanics, physics, biology, chemistry, nano-engineering, computer sciences and information security.

The INSM graduates are specialists who are capable of solving non-standard tasks, create new knowledge and innovative technologies, which determines their demand in the labour market of the Samara region, Russia and abroad.

INSTITUTE OF ECONOMICS AND MANAGEMENT

IEM
INSTITUTE OF ECONOMICS AND MANAGEMENT

At the Institute of Economics and Management (IEM) one can get knowledge in the field of enterprise management and human resources, regional economics, management, business process management, digital economy and public and municipal management. Educational programs of the institute have been developed with employers' representatives involved. The scientific, material and technical base of the institute makes it possible to train sought-after specialists having deep fundamental knowledge and relevant professional competencies in economics and management.

According to the recruiting agencies' statistics, economists, financial experts, HR, sales managers, business analysts are the most sought-after professions in the labour market.

INSTITUTE OF SOCIAL SCIENCES AND HUMANITIES

ISSH
INSTITUTE OF SOCIAL SCIENCES AND HUMANITIES

The Institute of Social Sciences and Humanities (ISSH) includes the Faculty of Philology and Journalism, the Faculty of History, the Faculty of Psychology and the Faculty of Sociology. Graduates of the Institute of Social Sciences and Humanities are experts in the field of psychology, sociology, social work, international relations, advertising and public relations, journalism, publishing, television, philology, linguistics and history.

The advantage of education in the humanities is the development of critical thinking; the humanities require analysis, reflection and critical view of life. These skills will be useful in any occupation and in life.

INSTITUTE OF LAW

IL
INSTITUTE
OF LAW

The Institute of Law (IL) is the leading educational and scientific centre that trains skilled personnel based on the innovative educational technologies, integration of training, upbringing processes and scientific and public activities. The graduates of the Institute form the intellectual professional elite and carry out the professional activities in legislative, executive and judicial public authorities and self-governing bodies, as well as in the advocacy, public prosecution agencies, law enforcement bodies, customs authorities and in business community.

INSTITUTE OF FURTHER EDUCATION

The Institute implements a great number of further education programs providing for a wide range of educational services addressed to teachers of schools, institutions of higher education and training colleges, to students, employees of industrial enterprises and to other categories of citizens with a purpose of acquiring additional occupational knowledge and skills. The fields and specialties of retraining and advanced professional training are in line with the area of expertise of the leading chairs, institutes and faculties of the University and cover all basic fields of the natural science, humanitarian, social and engineering and technical profile.

SAMARA UNIVERSITY TODAY

Student Participation in Research Projects

Training at Samara National Research University is conducted according to the principle “education through research”.

Every year, more than

4000

students take part in the scientific research, experimental design and technological projects.

Solid Foundation for a Successful Career

Since its foundation, Samara National Research University has trained over

90 thousand employees

for the Russian aerospace industry.

Today, the graduates of Samara University work at virtually all leading aviation and space-rocket centres in Russia and abroad. Our graduates are among the executive leadership at Irkut Corporation, Sukhoi Company PJSC, “Progress” State Research and Production Space Center, NPO Energomash JSC, Gazprom PJSC, Sberbank PJSC, and many others.

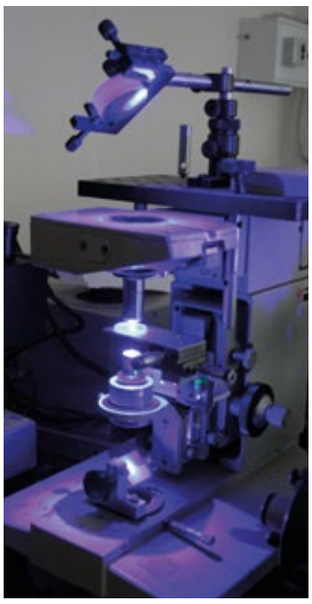
Own Production and Testing Space Centres

The grounds of the university campus are home to a functioning production -and-testing complex for the assembly and testing of small spacecraft (SSC) for remote sensing of the Earth, created by “Progress” State Research and Production Space Center.

A research and development (R&D) laboratory called Promising Basic and Applied Space Research Based on Nanosatellites was established in Samara University within the interdisciplinary department of space research.

There is a centre for testing and integrated processing of nanosatellite systems. It encompasses laboratories that make it possible to solve the vast array of tasks involved in the testing and development of nanosatellite systems according to the CubeSat 1U–3U standard and their subsystems.

Partnership with High-Tech Companies



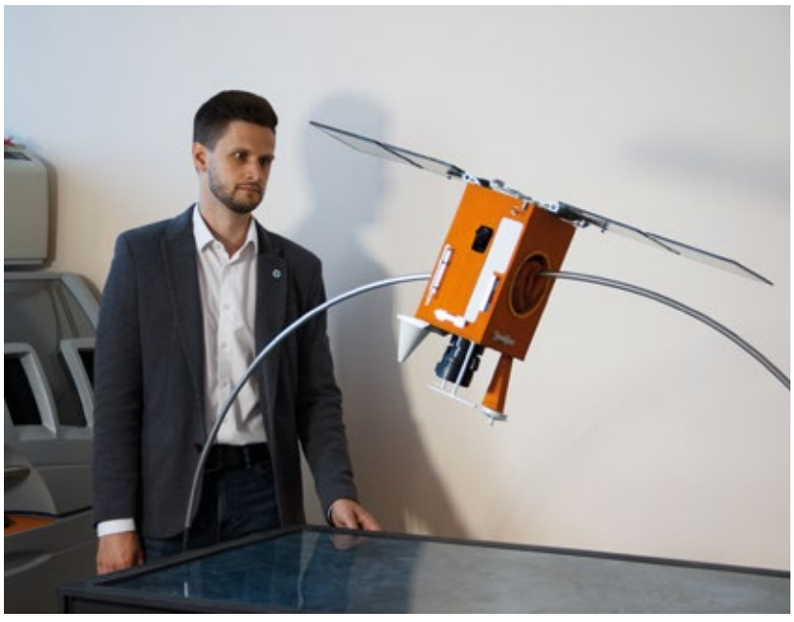
Thanks to our close integration with the leading industrial and research centres, our students and graduates can bring their ideas and advanced concepts to life – design a spacecraft, assemble it, launch it into space, and then control it in orbit.

They create machinery for research satellites and take part in space experiments.

Existing Group of Orbital Satellites

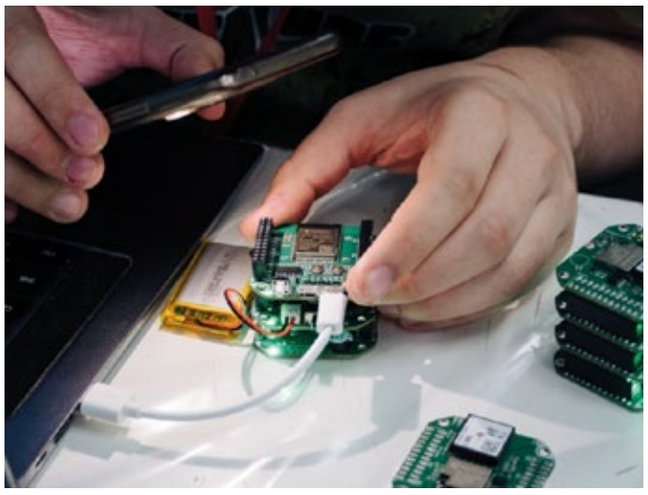
In cooperation with its strategic partner – “Progress” State Research and Production Space Centre – Samara University is one of the few research-and-education centres in the world to boast its own orbital family of small spacecraft intended for R&D purposes.

A small spacecraft of the first generation called AIST is now operating in the Earth orbit. It launched for the first time in 2013. This device was created by specialists of the RSC “Progress” and the Samara University’s scientists, with the students’ active participation. In total, within the period from 2013 to 2024, three devices of the series “AIST” have been launched and successfully operated into orbit, including two SSC “AIST” and SSC “AIST 2D”.



In 2022 the University took out a patent for the “AIST-3” platform.

It is a next generation satellite, which is already a ready-to-use complex of the onboard systems and target facilities equipped with a propulsion plant. The platform can be loaded up with the equipment that provides for the navigation, communication, TV broadcasting, access to the Internet, remote sensing of the Earth, meteorology and many other things depending on the task set.



In 2024 scientists started testing a new SSC – “AIST ST”.

It is a 12-unit nanosatellite equipped with the radar and designed for radar monitoring of the Earth’s surface. The SSC is able to “see” through dense clouds, by using centimeter radio waves. It is being created by the University scientists together with specialists of the company “Special Technology Center” from Saint Petersburg.

Interdisciplinary Research

Aside from its aerospace stream, Samara University also pursues scientific research and conducts the training of specialists in the field of modern biotechnologies, the creation of micro- and nano-devices for the next-generation of electronic and optoelectronic information systems, and the design of materials with pre-set properties.

Being the student of Samara University, you can carry out the study of fundamental social processes, the theory and practice of the preservation of cultural and linguistic heritage, and practise teaching and research.

SAMARA UNIVERSITY TODAY

Scientific and Educational Infrastructure

Samara National Research University has over one hundred of operational research and development centres, laboratories, as well as shared knowledge centres equipped with the state-of-the-art machinery.

The University has two supercomputer centres and one Big Data processing laboratory.

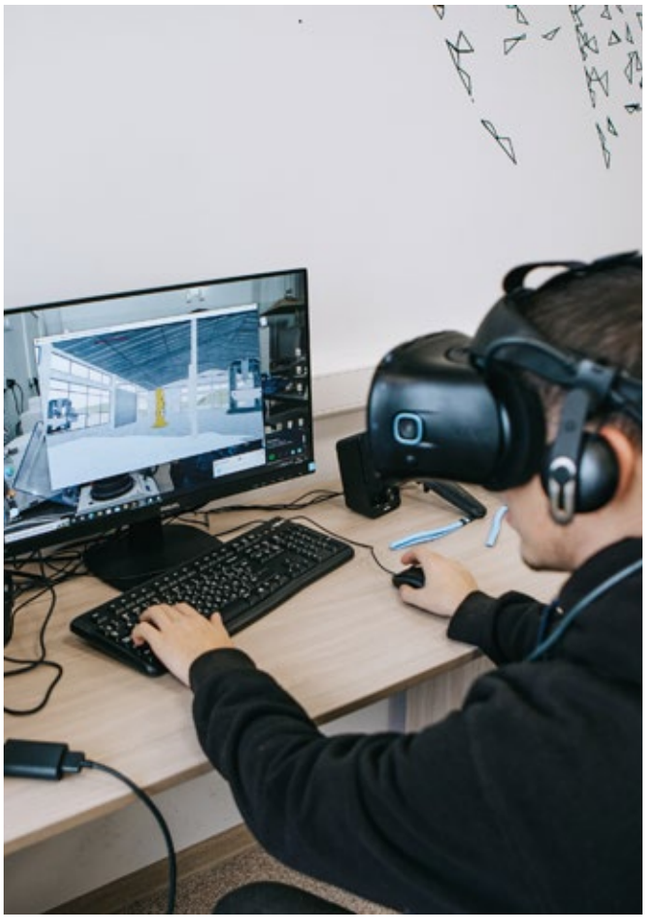
Samara University library is one of the largest in the region in respect of the book stock: it has over

1.6 million

copies of books.

Apart from the large book stock, the readers have free access to scientific works indexed by the largest international databases Web of Science and Scopus, as well as magazines of the Elsevier, OSA, EBSCO publishing houses, and different electronic library systems.

The access may be given not only from the stationary PC, but from the portable devices as well via unified Wi-Fi network operating throughout the campus.



Advanced Campus

Samara University campus is comfortably situated in the geographical centre of Samara city. Student quarter comprises over thirty training and laboratory buildings, as well as a complex of student dormitories for

4200 people.

University students and employees have over ten sport complexes and gyms available (including a riding hall and two swimming pools), as well as open playgrounds and other recreational, social and leisure infrastructure.

Museums and Points of Interest

Educational scientific and technical Aircraft Engine History Centre has one of the world's largest collections of aviation and rocket engines.

There are the inventions of all the Russian and some of the foreign design bureaus.

There is also such space as "Smart Butterfly House" at Samara University.

The richest collection of Lepidoptera is displayed here. It was collected by professor Sergey Anatolievich Sachkov and consists of about

75

thousand specimens.

It features species from Africa, North and South America, Asia, Europe. The collection is the largest in the Volga Federal District and one of the five most complete collections in Russia. In the "Smart Butterfly House" one can watch the living inhabitants in the insectarium.

Using the virtual reality glasses one can see in details the flight of insects, and if you put on VR-gloves, you will be able to take a 3D-butterfly in hand.

Since 1953, Samara University has its own operational Training Aerodrome. Currently there are

25

different models of aircrafts and helicopters.

The crown jewel of the training aerodrome fleet is the Soviet supersonic passenger aircraft Tu-144. There are only 8 units of this aircraft model left in the world (out of 17 ever built).

Samara University Botanic Garden is a state nature monument comprising over

4.5

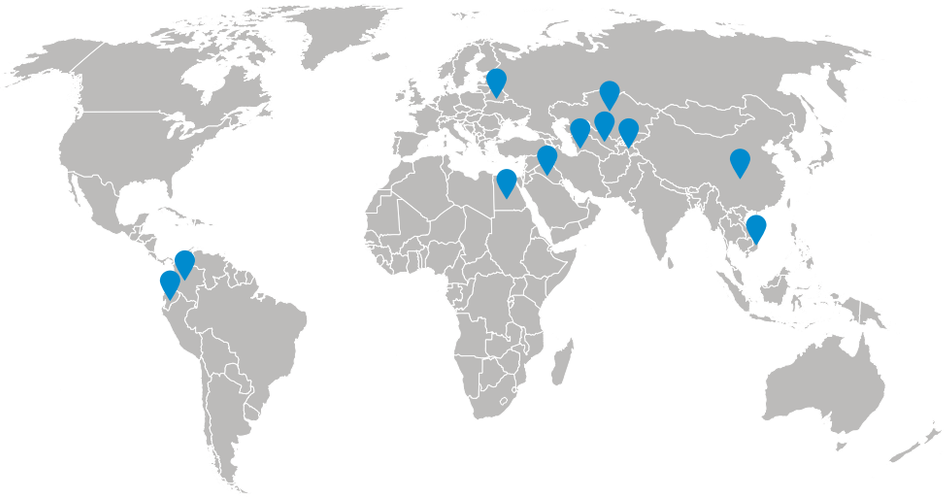
thousand species of higher plants. It is situated within the campus.

INTERNATIONAL COOPERATION

Samara University cooperates with research-and-education structures in a wide array of countries around the world. Among them are: China, India, Brazil, Venezuela, Latin America, Saudi Arabia, Mexico, Sri-Lanka, Malaysia, CIS countries.

SAMARA UNIVERSITY IS THE CENTRE OF ATTRACTION FOR THE TALENTED YOUTH FROM ALL OVER THE WORLD.

Samara University Geography on the World Map:



The University takes active efforts to involve gifted foreign applicants.

Over **700** **international students from** **58** **countries** are currently studying at Samara University.

Main Areas of Samara University Cooperation with the Foreign Universities:

1. **Joint research**
2. **Academic mobility programs**
3. **Inviting foreign facultyto teach at Samara University**
4. **Joint educational programs and double degree programs**

For more than **10** years Samara University has been actively involved in the activities to develop and implement educational programs in the form of network in cooperation with foreign universities.

There are **16** ongoing international treaties at the University, **13** of which provide for two diplomas.

Every year Samara University increases the number of the network programs in cooperation with foreign universities.

Partners of Samara University:

Nanjing University of Aeronautics and Astronautics;

Northwestern Polytechnical University;

Shanghai Jiao Tong University;

Julius Maximilian University of Würzburg;

Kyrgyz Aviation Institute named after I. Abdraimov.

WHY SAMARA UNIVERSITY?

Over **17 000** **students.**

More than **75** **student associations.**

More than **90** international scientific and educational partner organizations.

Over **280** educational bachelor's degree programs, master's degree programs and postgraduate training programs.

The Diploma of Samara University is recognized worldwide and gives an opportunity to study and work abroad.

Samara University takes part in the activities of large international organizations, such as International Astronautical Federation, UN committee for peaceful use of space.

In 2025 the construction of the International Interuniversity Campus will start in Samara. It will definitely become the space of the future for education and study of the world.

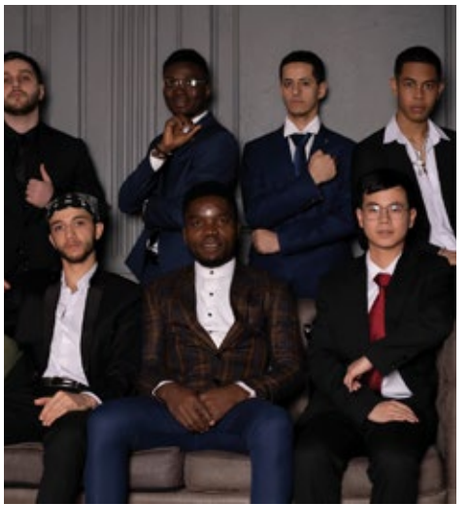
Samara University ranks are from **1001 to 1200** in the global ranking prepared by the British company Quacquarelli Symonds (QS).

Fundamental and applied research – at the scientific centres and laboratories (from engineering and space to humanities).

There are **13** **operating international** research laboratories.

STUDENT LIFE

Samara University holds cheerful extra-curricular events for the international students so that young people could unlock their creative and intellectual potential, get acquainted with the culture of different countries, be inspired by interest and respect for the traditions of the University multinational family.



ACTIVITIES AND CONTESTS

for International Students:

Miss and Mister International of Samara University
The Christmas concert for international students
Ethnic festival
Game “Who wants to become a millionaire?”
Fitness and health recreation event “Sport unites us”
Off-site training session for the foreigners
“International students tutors school”

INTERNATIONAL SCHOOLS

Samara University holds International Schools for foreign students in online and offline formats.

The International Schools have been held since 2015 and have covered more than

800
participants from
58 countries.

Themes of the University International Schools:

- Aerospace materials and technologies
- Manufacture and testing of aviation engines
- Technology of airplanes and aviation engines
- 3D printing technologies
- From engineering theory to operational practice
- Robotics and mechatronics
- FPGA-based digital design
- Russian language and culture
- Russian heritage
- Start-up project management
- High technologies management
- Soft Skills
- Sustainable business strategies
- Functional analysis
- International law

school.ssau.ru
schools_of_samara_university
schoolsofsamarauniversity

HOW TO ENTER SAMARA UNIVERSITY?

File Documents and Pass Entrance Tests:

priemsamara.ru

1 Study the training fields on the website of Samara University **admissions committee**, learn the number of seats, cost of study and entrance terms.

ssau.ru/enrollment

2 Fill in the application for study.

3 Wait till an employee of Samara University gets in contact with you for further interaction.

Take Part in the International Online Olympiad of Samara University:

Participation in the International Olympiad gives you an opportunity **to receive a grant for study** from the University.

The International Olympiad is held every year for schoolchildren of the 10th, 11th or 12th grades.

priemsamara.ru

Entrance according to the Quota of the Government of the Russian Federation:

The quota of the Government of the Russian Federation for education of foreign citizens and stateless persons, including Russian expatriates is an opportunity to undergo training:
- under the educational programs of secondary vocational education,
- higher education,
- advanced professional education in the Russian educational organizations out of budget resources of the Russian Federation, that is **free of charge.**

For this purposes it is necessary to submit a questionnaire with a package of documents and to take part in the selection events.

education-in-russia.com

priemvuz.ru

When preparing the edition, the photos and images of Roscosmos State Corporation, "Progress" Rocket-Space Center, Olesya Orina, Anar Movsumov, Anastasiya Aleksandrova, Ruslan Pikalov, Illuminator photo club named after V. Kakovkin – Artem Onoprienko, Anastasiya Pokhilchuk, Maria Lukienko, Andrey Kiselev, Anastasiya Korotkova, Nikita Murzakov, Anna Linnik, Sergey Syomik, Olga Zharkova were used.

SAMARA
UNIVERSITY

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