Volgograd State Technical University (VSTU) is one of the leading higher educational institutions of Volgograd Region, a major scientific center in the South of Russia, one of the leaders among the country's technical universities. As a result of the reorganization and unification of Volgograd State Technical University and University of Architecture and Civil Engineering in 2016, the main university of the region was formed.

Volgograd State Technical University (VSTU) was established in 1930 as a tractor-building institute, designed to train personnel for tractor-construction and other machine-building industries.

In 1963, being already a multidisciplinary university, the institute became a polytechnic, and in 1993 it acquired the status of a State Technical University. A new stage of development has begun on the basis of a constant increase in the qualifications of scientific and pedagogical personnel, research work, and using of modern teaching technologies.
The educational process and scientific activities at the university are currently carried out by 1288 teachers, among them: one Hero of Labor of the Russian Federation, three members of Russian Academy of Sciences, two corresponding member of the Academy of Sciences, 145 Doctors of Sciences, a professor and 533 Candidates of Sciences and associate professors.

The team consists of 11 Honored Scientists of the Russian Federation, 17 Honored Workers of the Higher School of the Russian Federation, two Honored Chemists, an Honored Economist, 9 recipients of the Russian Federation Government prize. Also, there are ten laureates of federal prizes among the scientists of the university. The university has ten dissertation councils for the defense of candidate and doctoral dissertations, which makes it possible for scientists of the Volgograd region and the south of Russia to defend dissertations in their region in a wide range of scientific fields. There are 17 faculties in the structure of the flagship university, including 10 full-time programs of studies; 4 part-time and correspondence programs of studies, the faculty of foreign specialists training, the faculty of pre-university training and postgraduate education.

Participation in federal programs and university development projects

2012-2015
Strategic Development Program of VSTU

2016-2020
Development program aimed at forming a flagship university

2021-2030
Strategic Academic Leadership Program «Priority 2030»
(a recipient of the basic part of the grant)
The university’s positions in the world rankings

- The Times Higher Education World University Rankings 2022 (22nd place out of 76 Russian universities) — 1201+
- The Times Higher Education World University Rankings by subject: Engineering 2023 — 1001+
- The Times Higher Education Impact Rankings 2023 — 1001+
- Three missions of the University (87th place out of Russian universities) — 1501+
- Rating of the best universities in Russia RAEX-100, 2022 — 92
- QS University Rankings: Emerging Europe and Central Asia 2022 (56th place out of 120) — 301+

Educational activities

- Bachelor’s degree — 65
- Specialist’s degree — 6
- Master’s degree — 33
- Postgraduate degree — 32
- Secondary professional education — 14

- Architecture
- Construction
- Informatics and Computer Engineering
- Electric and thermal power engineering
- Engineering
- Chemical technologies
- Industrial ecology and biotechnologies
- Technosphere safety and environmental management
- Monumental and decorative art
- Aviation and rocket and space technology

Monitoring indicators of MON - 2022
(for 2021)

- E.1. Educational Activities
- E.2. Research activities
- E.3. International activity
- E.4. Financial and economic activity
- E.5. Salary

- university performance
- median values of universities
- median values of universities’ branches in Russia
- median values for Russia
- university performance by department affiliation
The total number of students entered VSTU at the main educational programs on 01.01.2023 is 17,720 people. In 2022, admission for all forms of education amounted to 2,634 people in higher and secondary vocational education programs, including 2,089 people, who entered full-time educational programs.

According to the results of admission in 2022, the geography of those who submitted documents for admission to the university: 68% live in Volgograd and districts of the Volgograd region, 10% – live in other regions of the Russian Federation, 22% - international students.

According to the results of admission in 2022, the average score of the Unified State Exam was 65.36. The most popular areas of training among applicants in 2022 were «Software Engineering», «Computer Science and Computer Engineering», «Automation of production processes». 

Number and geography students

Admission of applicants to VSTU

According to the results of admission in 2022, the average score of the Unified State Exam was 65.36. The most popular areas of training among applicants in 2022 were «Software Engineering», «Computer Science and Computer Engineering», «Automation of production processes».
International status of VSTU

It is a recognized training center for international students from many countries of Europe, Asia, Africa, Middle East, Latin America. Graduates of the university work in more than 80 countries of the world. Currently, 1,772 international students from 54 countries of the world are studying here, including 1,303 students of full-time programs, 217 students of part-time programs, 120 students of correspondence courses and 132 students of pre-university trainings.

Work with the youth of VSTU

Adaptation of freshmen
Institute of Curators (curator-teacher, curator-student). Presentation of opportunities for students in the university, in the region, in the Russian Federation.

Extracurricular work
Formation of an Ecosystem of youth policy (each student must find his place at the university). Development of the club movement, communities at the university (patriotic club «I am proud», engineering club, environmental club and etc.)

Ecosystem: Competence Center – a program for the development of skills in the Center of project activities - A Career and Employment Center.

Student government community
Increasing the level of students’ participation in forums, events of the university, the region and the Russian Federation (83% of the number of students). Participation together with mentors in specialized areas in the implementation of the youth policy program.

Technological entrepreneurship
Ecosystem: Competence Center – a program for the development of skills in the Center of project activities - A Career and Employment Center.
The key function is development and «launch» of a comprehensive program of initiation and support activity of students, teaching staff, graduates, representatives of partner enterprises.

To link into a single mechanism the individual elements of involvement model - entrepreneurs, who are ready to bring technological products to the market. The formation, institutionalization and replication of these mechanisms are parts of the strategic priorities of the university.

Tasks
Providing space for professional students' self-realization through project activities, obtaining relevant competencies and cross-cutting knowledge, developing entrepreneurial thinking, holding business meetings.

Practical value for participants
In support of scientific and technological developments of young people, including their promotion at the regional and federal levels.
The scientific achievements of VSTU scientists are widely known in the Russian Federation and abroad. The main scientific directions in which research of a fundamental and applied nature is intensively conducted are related to the creation of promising composite polymer, metal and ceramic materials; the development of new robotics facilities and promising vehicles; proactive intelligent control systems for technical facilities and etc.

Within the framework of import substitution, the university conducts work on design documentation for component parts. In 2022, VSTU became the winner of the competitive selection for the right to receive grants for the development of design documentation in accordance with the Decree of the Government of the Russian Federation No. 208 dated February 18, 2022 «On Granting Subsidies from the Federal Budget to the autonomous non-profit organization «Agency for Technological Development» for supporting projects that envisage the development of design documentation for industrial components».

Scientific activity of the university

Receiving grants

VSTU scientists actively participate in competitions of grants on various levels. In 2022, the volume of funding for basic research amounted to 138 million rubles. In terms of the number of holders of presidential grants and scholarships, VSTU has been consistently at the 2nd place in the Southern Federal District for a number of years. VSTU has implemented a lot of regional projects for more than 200 million rubles in 5 years: creating of a comfortable urban environment, developing urban areas, improving the environment.

Inventive activity

VSTU occupies a leading position in the field of inventive activity among universities of the Russian Federation. In the Volgograd Region, VSTU receives about half of the total number of patents in the region, and according to Rospatent VSTU in 2018 took the third position in the country in terms of the number of patents received. Over the past few years, 17 licenses have been sold for the amount of 15.6 million rubles. Among the foreign licensees are Cameron (USA), Vietnamese companies «Thuan Thany Invescon» and OMI Vietnam Co. Ltd, JSC «Olainfarm» (Latvia).
VSTU is one of the few Russian universities that has its own research center with experimental production – the Volga Scientific and Technical Complex (VSTC). This is a powerful research and production complex, a unique techno park of the university, capable of solving many tasks that the country faces in the conditions of severe economic sanctions from the West.

The range of VSTC includes more than 20 thousand items of products. More than 50% of the production are the orders of the Ministry of Defense of the Russian Federation. The volume of science-intensive VSTC products shipped annually averages about 400 million rubles.

The engineering center «Polymer Composite Materials and Technologies» operates at the university too. The volume of services provided by the center in 2022 amounted to about 76.5 million rubles, including 216 million rubles for the regional order. The volume of scientific, scientific-technical and engineering services rendered by the University amounted to 640.8 million rubles.

Innovative activity

Scientific activity of the university

Publications

The publication activity of university professors is high. 17 monographs, 4 textbooks, 252 workbooks (14 of them with a stamp) were published and actively registered in the database «Publications of employees of VSTU». 1231 articles were published in journals of State Commission for Academic Degrees and Titles and also in foreign journals, over 7000 scientific articles and abstracts of reports were created, 230 security documents were received on the objects of intellectual property rights in 2022.

The publication activity of VSTU scientists (according to SCOPUS data), publ./st. of teaching staff

Dynamics of publication activity of university faculty in journals indexed by RSCI, articles/st. of faculty

Innovative activity

14 15
REC of the South of Russia

VSTU as a part of the participants of the Interregional Scientific and Educational Center of the South of Russia became the winner of the All-Russian competitive selection of world-class scientific and educational centers in 2021. Participation in the REC of the South of Russia made it possible to establish a certification center for polymer, composite and hybrid materials on the basis of VSTU. And it also allowed VSTU laboratory of polymer, composite and hybrid materials to win the competition within the framework of the national project «Science and Universities». This victory allowed us to create in 2021-2024 laboratories, which are led by young promising researchers, so it is possible to secure 20 young PhD students, postgraduates and students at the university.

Practices of effective cooperation with employer partners

Meeting with representatives of PJSC Gazprom

New master’s program "Chemical methods for enhanced oil recovery"

Opening of the base department of VSTU at Volgogradsky Metallurgicheskiy Zavod Krasnyy Oktyabr

Corporate Center for Youth Initiatives "RUSAL Laboratory"
Employment of graduates bachelor’s degree, master’s degree

The best universities in Russia according to hh.ru 2021-2022 employment ranking (358 universities of the Russian Federation)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>Name of the university</th>
<th>Employment (rating)</th>
<th>Final score</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>Volgograd region</td>
<td>Volgograd State Technical University</td>
<td>5.0</td>
<td>101.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>Name of the university</th>
<th>Employment (rating)</th>
<th>Final score</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td></td>
<td>SuperJob</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List of the best universities by salary level of 4 graduates 2018-2021 (SuperJob, 20 places)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>Name of the university</th>
<th>Employment (rating)</th>
<th>Final score</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Volgograd region</td>
<td>Volgograd State Technical University</td>
<td>5.0</td>
<td>101.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>Name of the university</th>
<th>Employment (rating)</th>
<th>Final score</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td></td>
<td>SuperJob</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material base and equipment of the university

VSTU is a modern multi-campus university with a promising scientific and industrial infrastructure: multi-media classrooms, an information and bibliographic center, a scientific and production base, laboratories with modern equipment.

There are 30 academic buildings, 8 dormitories, 17 sports and health facilities. There are 156 real estate objects with an area of 289.2 thousand m2, 57 linear objects with a length of 18.3 thousand m and 35 land plots with an area of 50.3 hectares.

Strategic partners


Percentage of working graduates, bachelor’s degree

<table>
<thead>
<tr>
<th>Field of study</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Engineering</td>
<td>82%</td>
<td>78%</td>
<td>75%</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>85%</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>86%</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>86%</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>86%</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>Geology</td>
<td>86%</td>
<td>86%</td>
<td>86%</td>
</tr>
</tbody>
</table>

Percentage of working graduates, master’s degree

<table>
<thead>
<tr>
<th>Field of study</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Engineering</td>
<td>72%</td>
<td>72%</td>
<td>72%</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>77%</td>
<td>77%</td>
<td>77%</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>86%</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>78%</td>
<td>78%</td>
<td>78%</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>74%</td>
<td>74%</td>
<td>74%</td>
</tr>
<tr>
<td>Geology</td>
<td>75%</td>
<td>75%</td>
<td>75%</td>
</tr>
</tbody>
</table>

Page 19
Partners-employers of VSTU