



THE MINISTRY FOR SCIENCE
AND HIGHER EDUCATION
OF THE RUSSIAN FEDERATION



DON STATE
TECHNICAL
UNIVERSITY

DON STATE TECHNICAL UNIVERSITY

www.donstu.ru

ROSTOV-ON-DON

SOUTHERN BUSINESS AND INDUSTRIAL CAPITAL

1 352 000

population

348 km²

area

90 000+

enterprises and companies

TOP-10 AWARDEE

“investment attractive city”

www.rostov-gorod.ru

STRATEGIC CLUSTERS

- Machine engineering and equipment
- Food industry
- Aircraft engineering
- Chemical industry
- Light industry
- Metallurgy



DON STATE TECHNICAL UNIVERSITY

- **1930** North-Caucasus Institute of Agricultural Machine Building
- **1992** Don State Technical University
- **2016** The Flagship University

5 000+
staff

24
faculties

134
departments

45 000+
students

3 000+
international students



5
branches

+

10
students' dormitories

- **DON UNIVERSITY SJU-DSTU**
(CHINA, SHANDONG PROVINCE)
- **5 COLLEGES**
- **TECHNICAL LYCEUM**
- **GYMNASIUM**
- **DON CADET SCHOOL**
- **KINDERGARTEN**

DSTU IN UNIVERSITY RANKINGS



Times Higher Education
World University Ranking

501-600



The Three
University Missions

1501-1650



World University
Rankings

1201+



Ranking of Green
Universities in Russia

3



100 best
universities in Russia

78



QS: Emerging Europe and
Central Asia

301-350

DSTU STRUCTURE

5 fields
of study

ARTS & HUMANITIES

LIFE SCIENCES
& BIO MEDICINE

NATURAL SCIENCES

SOCIAL SCIENCES

ENGINEERING & IT

24 faculties

134 departments

Aircraft Engineering

Agribusiness

Mechanical Engineering

International

Automation, Mechatronics
and Control

Power Engineering, Oil
and Gas Industry

Machinery Engineering and
Equipment

Transport, Service
and Maintenance

Media Communications
and Multimedia Technologies

Psychology, Pedagogy
and Defectology

Construction
and Engineering

Life Safety and Environmental
Engineering

Civil and Industrial
Engineering

Institute of Emerging
Technologies "X School"

Physical Training
and Sports

Architecture, Design
and Art School

IT-systems and
Technologies

Road Transport
Engineering

Tool Engineering and Technical
Regulation

Bioengineering and
Veterinary Medicine

Innovative Business
and Management

Service
and Tourism

Law

Social and Human Sciences

STUDY PROGRAMS

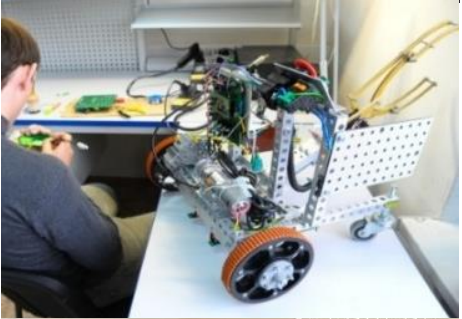
PHD (3 YEARS)	ENGINEERING & IT	NATURAL SCIENCES	SOCIAL SCIENCE	ARTS & HUMANITIES	
MASTER (2 YEARS)					LIFE SCIENCES & BIO MEDICINE
BACHELOR (4 YEARS)					
PRE-UNIVERSITY	KINDERGARTEN	TECHNICAL LYCEUM	GYMNASIUM	COLLEGES	EMPEROR NIKOLAY II DON CADET SCHOOL

500+

study programs

LIFELONG AND LIFEWIDE LEARNING

PRIMARY EDUCATION	SECONDARY EDUCATION	PREPARATORY EDUCATION	HIGHER EDUCATION	POST - GRADUATE PROGRAMS	CAREER GUIDANCE CENTRES
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DSTU INFRASTRUCTURE

CONGRESS HALL

- Concert hall – 1500 seating capacity
- Multimedia rooms
- Press conference venue
- Multimedia equipment
- Multi-language broadcasting
- Satellite TV link-up



MEDIAPARK

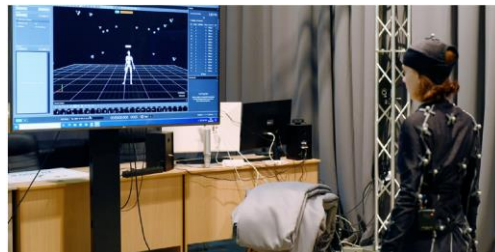
- Media Lab
- [Radio and TV broadcasting]
- Production center
- Design studio
- TV school



TECHNOPARK MAGIKA

“Soyuzmultfilm” is the strategic partner of Technopark

- Animation, 2D and 3D visualization
- Game design
- Mobile apps development
- Sound design
- VR \ AR
- Motion capture equipment



- 4 research and education centers
- 30 labs (Camozi, Mitsubishi, Alcoa, Festo, Kovosvit MAS, etc.)
- Rosatom Nuclear Energy Centre
- Nanotechnologies Education Park
- South Russia Engineering Centre
- Robotics Resource Centre
- Agrotechnopark
- 10 spin-off companies



DSTU CAMPUS



«Nauka» Industrial facility



New dormitories



Scientific-educational facilities

NEW CAMPUS



NATIONAL AND INTERNATIONAL PARTNERS

РОСТСЕЛЬМАШ



ENTERPRISE-UNIVERSITY DEPARTMENTS

21

corporate
departments

13

degree-granting
departments



Transport systems
and logistics



ТАНТК
ИМ. Г.Г. БЕРНЕВА

Aircraft systems for special
operations manufacturing
technology

РОСТСЕЛЬМАШ

Agricultural machinery
engineering
and production



Agribusiness products
processing
technologies and equipment



Orthodox culture and
theology



Veterinary dentistry and
oral surgery



Steel and its alloys
production technologies



Drive systems



Non-ferrous
metal processing



Design and engineering
support of drive systems
production



Automated
control systems



Technical means of fish
farming



Transport
machinery



Ichthyology and
fish pathology



Hardware and
software systems



Engineering management
in construction



Industrial
metrology



Multimedia communications
and technologies



Social pedagogy

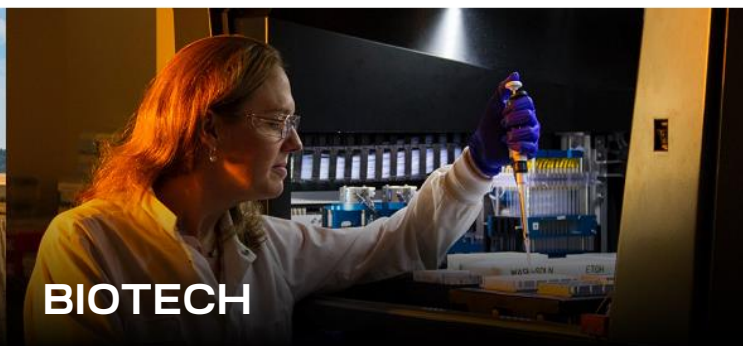


Power plant engineering



Aircraft engineering

KEY STUDY AREAS



INNOVATION CENTRE WITH AMAZONE WERKE



Delegation from DSTU at AMAZONE-WERKE plant



Negotiations at Osnabrück University



Joint participation with the international partners in "Golden Autumn 2018" fair



DSTU delegates testing Pantera self-propelled sprayer in Germany



Amazone-Werke and Scientific Centre "Donskoy": working together on unmanned robot for soil analysis

INNOVATION CENTRE WITH AMAZONE WERKE



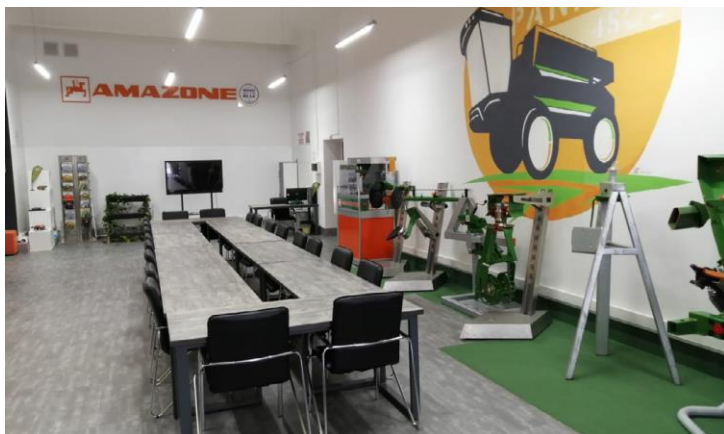
Rostov Region Governor visit to DSTU



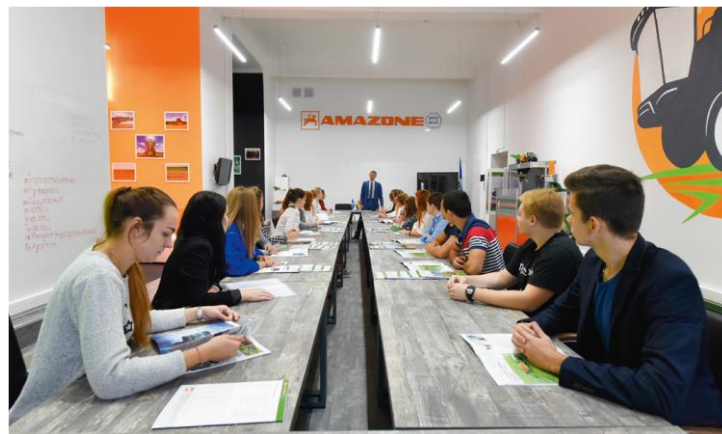
Cooperation agreement between DSTU and Amazone-Werke



Precision Agriculture Class



Hands-on training sessions in the Precision Agriculture class



Fertilizer Spreader ZA-M Stand in the Precision Agriculture class

ROSTSELMASH



Rostov Region Governor visit to DSTU



RSM Projectorium. 2 weeks of intensive training 13 April – 25 April 2019



Developing design documentation of final drive for the tractor



Students internship at Rostselmash plant



BIZON TRADE: MODERN AGRICULTURE



Partnership agreement between DSTU and
“Bizon Trade”



Opening ceremony of the “Bizon Trade”
modern agriculture class



Lemken (Germany) и Gaspardo (Italy)
training agriculture stands



Training stand: “Systems of precision
agriculture” with quadrocopter Mavic Pro 2
and virtual reality glasses DJI



Stara Imperador sprayer cabin (Brazil) –agro
simulator for preparing specialists in
agriculture

SOUTHERN SCIENCE AND EDUCATION CENTER (SSEC)

- Since August 7, 2019
- Created to unite science, real sector of economy and government
- Supervisory Board headed by Vassily Golubev, the Governor of the Rostov Region
- Aimed at becoming one of the leading centers of advanced technologies in the agro-industrial sphere in Russia and Europe by 2030



SOUTHERN SCIENCE AND EDUCATION CENTER: CONSORTIUM

8

higher education
institutions



6

scientific
organizations



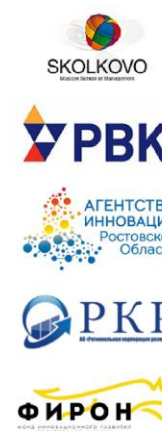
12

real sector
of economy
organizations



5

development
institutions



6+

professional
associations



INNOVATIVE SCIENTIFIC AND TECHNOLOGICAL CENTER (INTC) «DON VALLEY»



THE GOAL

to create the enabling environment for innovative development in Rostov Region

THE OBJECTIVES

- Innovative infrastructure creation
- Competitive advantage in economics and GDP growth
- New investors attraction
- Human capital improvement
- Welfare gains
- Urban environment development

INITIATORS



ROSTOV REGION
GOVERNMENT

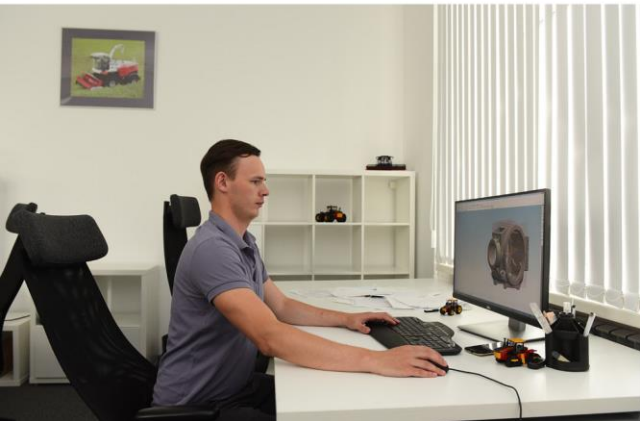


DON STATE
TECHNICAL UNIVERSITY



REGIONAL
DEVELOPMENT
CORPORATION

DON ENGINEERING CENTER



JOINT CENTER DSTU + ROSTSELMASH

**Agriculture and industrial complex
digitalization projects**

- New generation machines
digital design
- Strength and resource
calculations
- Simulation modeling and
developing advanced
technology digital twins

SOCIAL LIFE

STUDENT HEALTH AND SPORTS COMPLEX «RADUGA»

4 residences **1500** holding capacity

5 sports fields **700** seating capacity of the conference hall



DSTU-REAL MADRID ACADEMY

PROJECT OVERVIEW:

- Promotion of civil responsibility, tolerance and social activity
- Real Madrid methodical support, coaching and manager training
- Regional sports infrastructure development



STUDENT SPORT

36

student sports teams

TEAMS:

- football
- track-and-field athletics
- basketball
- handball
- cheerleading for kids and adults



DSTU SCIENCE

RISK-ORIENTED TRANSFORMATION OF THE AG-INDUSTRIAL COMPLEX

- Digitalization of agricultural land monitoring
- Precision farming
- The Internet of Things, cyber-physical systems and cloud services
- Intelligent and self-driving means of agricultural mechanization

BIOLOGICAL AND MEDICAL ENGINEERING

- Organic, individualized and functional food products
- Nano- and biotechnologies
- Additive technologies in medicine
- Prospective technologies and devices in medicine

RESOURCE-SAVING ENERGY

- Alternative energy
- Deep processing of hydrocarbon raw materials
- New energy source
- Smart energy networks
- Innovative methods of energy storage and recycling

RATIONAL KAP PRODUCTION CYCLE

- Biomanipulations, biocontrol, biologization of agriculture
- Green economy and sustainable development
- Deep processing of agricultural products
- Technologies and equipment for feed production

DIGITAL TRANSFORMATION OF THE INDUSTRIAL COMPLEX

- The Internet of Things, cyber-physical systems and cloud services
- Equipment diagnostics and non-destructive testing
- Additive technologies and generative design
- Industrial robotic systems

TECHNICAL MEANS OF AQUACULTURE

- Farming and commercial breeding of fish, invertebrates, algae
- Ensuring the ecological safety of water bodies
- "Story" technologies for multi-trophic aquabioculture
- Digital modeling

DSTU SCIENCE

ADVANCED ROBOTIC MACHINES AND COMPLEXES



Machines for balancing flexible rotors development, high technology multi camera systems and unmanned aircraft for threat detection

AGRO- BIOTECHNOLOGY



Veterinary probiotic drugs for targeted animal health modeling

ADVANCED MATERIALS



Multi-layer composite materials for aircraft industry and medicine

DON UNIVERSITY SJU-DSTU



18.06.2019

Every year:

100 students
per program

**JOINT EDUCATIONAL
PROGRAMS**

**CONSTRUCTION OF
BRIDGES AND TUNNELS**

**ORGANIZATION OF
TRANSPORTATIONS AND
TRANSPORT
MANAGEMENT**

**INDUSTRIAL AND CIVIL
ENGINEERING**

RUSSIAN AS A FOREIGN LANGUAGE TEXTBOOK FOR CHINESE STUDENTS



ZRENIE 2.0

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Google Play



Download on the
App Store



INSTITUTIONAL NETWORKING

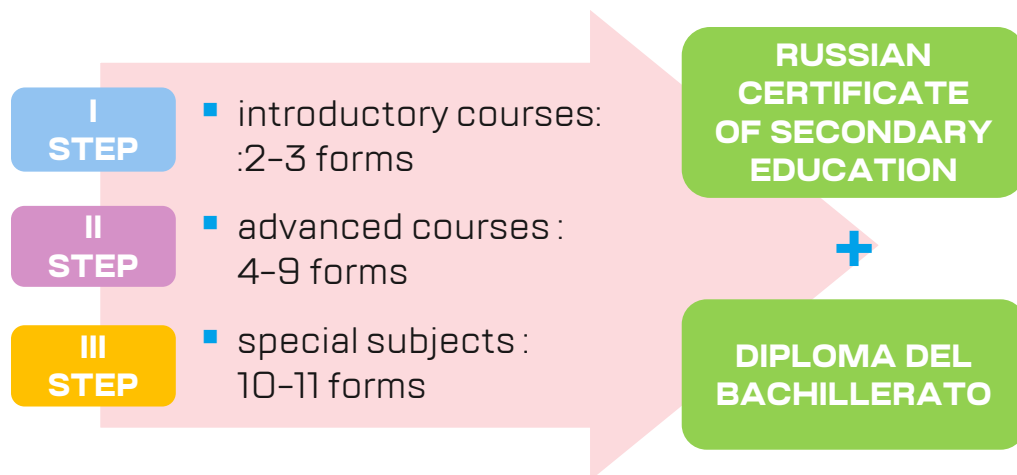
«BILINGUAL SECTIONS» PROJECT



DON STATE
TECHNICAL UNIVERSITY
(RUSSIA)



MINISTRY OF EDUCATION,
CULTURE AND SPORT
(SPAIN)



«DIGITAL SCHOOL» PROJECT

in collaboration with educational organizations of China, Georgia, Kazakhstan, Spain, Kyrgyzstan and Uzbekistan

PROJECT'S AIM:

replication of best practices for the development of digital literacy of schoolchildren on the basis of Russian schools and educational organizations abroad

700 + Educational organizations



ROSSOTRUDNICHESTVO



MINISTRY OF DIGITAL DEVELOPMENT,
COMMUNICATIONS AND MASS MEDIA
OF THE RUSSIAN FEDERATION

INTERNATIONALIZATION OF EDUCATION: EDUCATIONAL PROGRAMS IN FOREIGN LANGUAGES

8

educational programs in English :

BACHELOR`S DEGREE

- Digital Content Production
- Reconstruction and Restoration of Architectural Heritage

EXTENDED BACHELOR`S DEGREE (5 YEARS)

- Veterinary Medicine

MASTER`S DEGREE

- Smart Systems based on BlockChain Technology
- Multimedia Projects Production
- Industrial and Civil Engineering
- Transport Logistics
- Urban Planning

30

modules\subjects in English

THE MAJORS ARE:

- Construction
- Veterinary Medicine
- Tool Engineering
- Technosphere Safety
- System Cybersecurity
- Software Engineering
- International Economics
- Applied Informatics
- Robotics and Mechatronics
- Psychophysiology and Clinical Psychology

INTERNATIONAL FACULTY

PROGRAM STRUCTURE



ADDITIONAL EDUCATION COURSES

- Russian as a foreign language (in accordance with TORFL levels)
- The Russian language for business
- The Russian language for engineers
- Teaching Russian as a foreign language (from Elementary to Advanced levels)

HEAD TESTING CENTER

- Preparation for a test to obtain an international certificate confirming the level of the Russian language proficiency

INTERNATIONAL FACULTY

EDUCATION FORMATS

ONLINE

- Individual educational plan
- Convenient schedule considering time zones
- Tutors' assistance

MIXED

- Individual educational plan
- A wide range of online courses
- Flexible system of online grading

OFFLINE

- Small groups (maximum 8 students)
- Language labs
- Science research projects
- Buddy service system
- Comfortable accommodation

Application dates:

10 June – 30 October

Start dates:

As groups are completed
(September–November)

The module framework of educational process organization

12 modules

The Russian language general course
Specialized disciplines

Program types

Intensive – 936 academic hours. / 26 ECTS

Standard – 2160 academic hours. / 60 ECTS

Long-term – 3240 academic hours. / 90 ECTS

Final documents:

Certificate in standard format and
TORFL /B1 Certificate

ACADEMIC MOBILITY

LONG-TERM AND SHORT PROGRAMS



- Archicom
- Media camp
- Cross-cultural communication
- Aquaculture
- Urban planning and reconstruction
- Pet veterinary medicine

SUMMER SCHOOLS LANGUAGE+



Renewable Energy Sources and Green Technologies



Logistics and Management in Road Transport

CONTACTS

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