



# Institute of Geology and Petroleum Technologies at Kazan Federal University

#35 in the world  
QS Subject Rankings in Petroleum Engineering

# KAZAN UNIVERSITY: DEVELOPMENT MILESTONES



Nikolay Lobachevsky



Leo Tolstoy



Karl Claus



Vladimir Lenin



Alexander Butlerov



Alexander Vishnevsky



Yevgeny Zavoisky



Ruthenium discovered by Karl Claus



1844

Yevgeny Zavoisky discovered electron paramagnetic resonance (EPR)

1930

Restructuring of Kazan State University

1944



1955



1981



1979



2013

priority2030^  
leaders are made, not born

2019



2010

Kazan Federal University was established and started implementing large-scale development programs

Kama Academy of Engineering and Economics

Yelabuga State Pedagogical University

Tatar State University of Humanities and Education

Kazan State Institute of Economics and Finance

Secondary schools, lyceums

Medical facilities complex

Institutes of the Kazan Research Center of the USSR Academy of Sciences

Alexander Tupolev Kazan Aviation Institute

Kazan Medical Institute

Kazan Institute of Chemical Technology

Executive Order signed by Emperor Alexander I on establishment of Kazan Imperial University



1804

1917



# KAZAN FEDERAL UNIVERSITY. FACTS AND FIGURES



**1804**

2<sup>nd</sup> oldest university  
In Russia



**702**

real estate items  
125 landplots (253 ha)



**55 000**

Students total



**11 600**

International students  
104 countries



**17** institutes/faculties,  
1 higher school, 4 branches,  
2 lyceums, secondary school,  
kindergarten



**415**

research laboratories,  
University clinic



**10 000** employees  
4 000 academic staff  
average age – 43



**301**

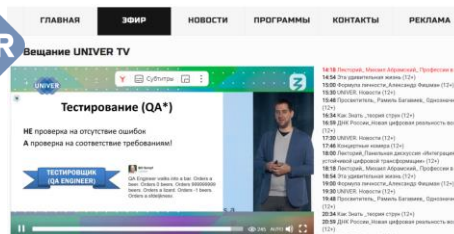
Foreign partners  
53 countries



Astronomical Observatory Complex of KFU is inscribed into the **UNESCO World Heritage List** (September 2023, Saudi Arabia, 45th session of the UNESCO World Heritage Committee)



KFU Naberezhnye Chelny Institute **CYBER AUTO TECH** Advanced Engineering School organized jointly with Joint Stock Company **KAMAZ**



**Corporate 24-hour UNIVER TV-**  
channel (full-HD broadcasting) is  
included in TV packages of all major  
Russian providers

Broadcasting since **2011**  
**5 mln** audience



# Kazan Federal University – Studies and structure

## Natural Sciences

Medicine and biology  
Environmental science  
Geology and petroleum technologies  
Chemistry

## Territorial campuses

Yelabuga, Russia  
Naberezhnye Chelny, Russia  
Jizzakh, Uzbekistan  
Cairo, Egypt

## Physics, Mathematics, IT

Physics  
Astronomy  
Mathematics and mechanics  
Computer science  
Engineering (heat, electrical, automotive, civil, mechanical, biotechnical, cryogenics, materials science)

## School and Pre-school Education

IT Lyceum  
Lobachevsky Lyceum  
University School of Yelabuga  
We are Together Kindergarten

## Social Sciences and Humanities

International relations  
Law  
Philology and linguistics – over 20 languages  
Psychology  
Philosophy and theology  
Sociology  
Political science  
Design and environmental arts  
Economics and finance  
Management and public service  
Teacher education



401 in the world  
5 in Russia



**priority2030^**  
leaders are made, not born

## Priority 2030 – Strategic projects

Priority 2030 is a Russian strategic academic leadership program launched in 2021. There are two tracks in the project – the Territorial / Industrial Leadership track and the Research Leadership track. KFU is part of the Territorial / Industrial leadership group. Our University listed five strategic projects for the program:

**SP1 Genomic and Post-Genomic Technology**

**SP2 Russian Energy Transition: Balancing Natural Potential and Global Trends**

**SP3 Digital Studies of Materials**

**SP4 Meta-Platform Solutions for IT, AI and Cyber-Physical Systems**

**SP5 Evidence-Based Platform Solutions for Human Potential**



401 in the world  
5 in Russia

## Cultural, social and sports infrastructure



Over 14,000 students are hosted at various KFU dorms, including the Universiade Village – one of the largest dorm campuses in Russia



**11**  
sports  
venues

**12** museums (humanities, technology, and natural sciences)

**1 mln** depository items

**10** large-scale exhibition projects per year

**35 thousand** visitors per year







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# Geology and Petroleum Technologies at Kazan Federal University – three pillars

Institute of Geology and Petroleum Technologies  
(education and research)

World-Class Research Center for Liquid Hydrocarbons  
(research)

Center for Advanced Training, Quality Management and Marketing  
(advanced professional training)



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5 in Russia

# Institute of Geology and Petroleum Technologies

## OUR INSTITUTE

World # 35  
QS World University Rankings by  
Subject 2025: Engineering -  
Petroleum

World-class  
laboratories

Students actively  
partake in our  
research



Over 1,700 students

Cooperation with local  
and overseas  
universities

Employment opportunities in industry-  
leading companies





401 in the world  
5 in Russia




# Institute of Geology and Petroleum Technologies

## OUR EDUCATIONAL PROGRAMS

### Bachelor's programs (4 years)

-  Geology and development of mineral deposits
-  Geophysics
-  General geology
-  Engineering geology and hydrogeology
-  Petroleum engineering
-  Geography
-  Cartography and GIS
-  Teacher education (geography and ecology) – *5 years*






### PhD programs (4 years)

-  Oil chemistry
-  Paleontology and stratigraphy
-  Mineralogy and crystallography; geochemistry and geochemical methods of mineral exploration
-  Lithology

### Master's programs (2 years)

-  Contemporary geophysical technologies of hydrocarbon prospecting and exploration
-  Engineering geology and hydrogeology of urban territories
-  Geology of mineral deposits
-  Geology and geochemistry of oil and gas
-  Digital technology and modeling methods in oil and gas geology
-  Stratigraphy of oil and gas basins
-  Complex data analysis in geosciences (English program)
-  Petroleum engineering (English program)
-  Development of hard-to-recover and unconventional hydrocarbon fields
-  Integrated modeling of deposits
-  Technology of oil, gas and natural bitumen
-  Economic geography and spatial development of territories
-  GIS and space technology in economics and management
-  Teacher education (geography and ecology)

### PhD programs (4 years)

-  Hydrogeology
-  Geophysics
-  Geology, exploration, prospecting and development of oil and gas deposits
-  Development of oil and gas deposits
-  Petroleum engineering (English program)

# Institute of Geology and Petroleum Technologies

## SOME OF OUR LABORATORIES

### Laboratory of Geochemistry, Isotope and Element Analysis



### Laboratory of Enhanced Oil Recovery



### Laboratory of X-ray Tomography



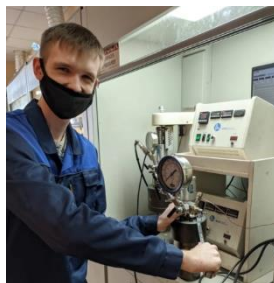
### In-Situ Combustion Laboratory



# Institute of Geology and Petroleum Technologies

## SOME OF OUR LABORATORIES

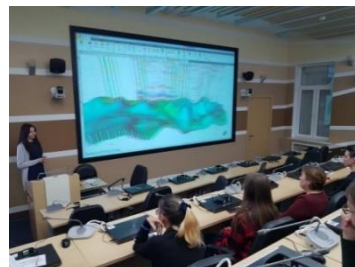
### Laboratory of Hydrate Technologies for the Utilization and Storage of Greenhouse Gases



### Electron Microscopy Laboratory



### 3D GEO Center

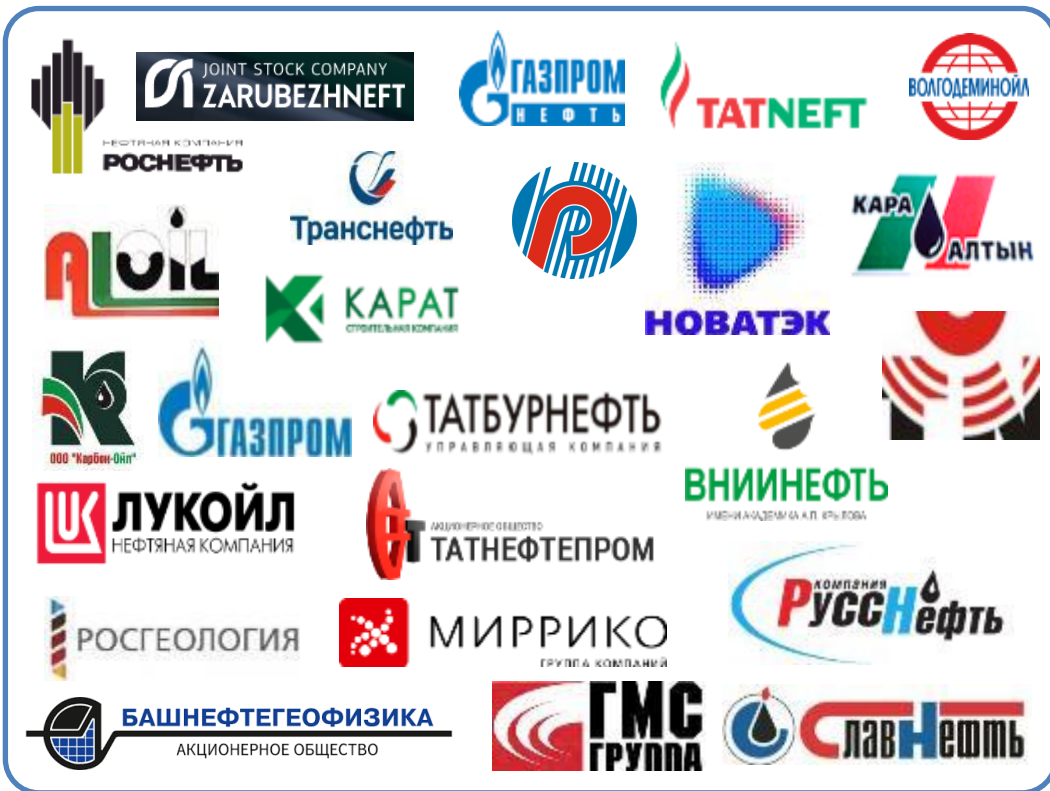


### Laboratory of Petrophysical Methods of Geological Material Research



## COOPERATION

### Russian companies



### International companies





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## World-Class Research Center for Liquid Hydrocarbons (2020-2024)

The Center was established in 2020 to advance research in hydrocarbon deposit exploration, comprehensive deposit monitoring, eco-friendly and efficient methods of production on heavy and complex reservoirs

Among the Center's priorities were:

Fundamental research

New production paradigms

Exploration of new reserves

Sharing of best practices



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# World-Class Research Center for Liquid Hydrocarbons (2020-2024)

## RESEARCH PRIORITIES

Satellite imaging	Big data and AI in geological modeling	Utilization of associated petroleum gas for enhanced oil recovery
Heat flows	„Pseudo“-core samples	Oil displacement mechanisms
Carbon isotope record	Microfluid research	Enhanced oil recovery (ionized water, surfactants, polymers, gels)
Sedimentation basins	Exploration on depleted reservoirs	Catalysts for viscous oils
Evaluation of reserves	Eco-friendly and cost-effective drilling technologies	Express analysis of composition of oil and oil products
Geothermochronology		
Air, water, and ground prospecting and exploration		
Drone surveillance		



# Center for Advanced Training, Quality Management and Marketing

CdoGEO implements professional retraining programs, advanced training courses, conducts webinars and individual internships

**Courses are implemented in any of the requested formats:**

- ✓ Full-time
- ✓ Part-time
- ✓ In the field, at enterprises, in laboratories





# Center for Advanced Training, Quality Management and Marketing

## Individual internships at our best laboratories

### Professional training in:

- Geology and geophysics
- Field development
- Geodesy and prospecting
- Geomechanics
- Drilling
- Modeling
- Metrology
- Management in the petroleum industry

## Our partners



Uniting our capabilities  
for everyone's success!  
**CdoGEO**





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Representatives of **Cuba** (CUPET), **Iraq** (South Oil Company), **China** (UPC), **Vietnam** (Vietsovpetro), **Belarus** (Rechitsaneft, Belorusneft), **Uzbekistan** (IGIRNIGM, Uzbekgeofizika), **Kazakhstan** (Maten Petroleum) have completed their training at CdoGEO.

We have also trained our students as part of a departmental target program for the training of engineering personnel in **China, France, Germany, and Switzerland**. Our Center has implemented programs with the participation of international partners from the USA, Canada, and the UAE.



**We integrate everybody's possibilities for each one's success!**

**[cdogeo.kpfu.ru/centre](http://cdogeo.kpfu.ru/centre)**

- 16+ professional retraining programs
- 110+ professional development programs
- 100+ distance learning courses
- 1,000+ students per year
- 170+ teachers and experts

## Our partners and customers

PJSC NK Rosneft

PAO Tatneft

PJSC Gazprom

PJSC Gazpromneft

PJSC LUKOIL

JSC "Ritek"

OJSC "Surgutneftegas"

LLC "TNG-Group"

JSC "Bashneftegeofizika"

PJSC "Geotech holding"

MH Industry (Kazakhstan)

Burgylau LLP (Kazakhstan)

Unión Cuba-Petróleo (Cuba)

Southern Oil Company (Republic of Iraq)

Roxar Services AS

All-Russian Research Institute of Flow  
Measurement

Schlumberger

SPF Paker LLC

Mirrco Group of Companies

CMG (Canada)

Trimble (US)

IFP (France)

HONG KONG UNITE CREATION

INTERNATIONAL CO. LIMITED (China)



# Conferences 2026

ПЕТРОФИЗИКА



Website



## PETROPHYSICS XXI

19-21 March 2026, Kazan

Abdullina Elina

☎ +7 (952) 036-99-98

✉ pp21.conf@yandex.ru

@pp21\_conf



Telegram



## Tatarstan UpExPro

13-14 April 2026, Kazan

Semenova Aliya

☎ +7 (986) 712-94-93

@tatarstanupexpro



РАЗРАБОТКА ГАЗОКОНДЕНСАТНЫХ  
МЕСТОРОЖДЕНИЙ

Telegram



## Development of gas condensate fields

28-29 May 2026, Kazan

Saptarova Zalina

☎ +7 (987) 291-37-23

✉ saptarovazalina@yandex.ru



Химические методы  
увеличения нефтеотдачи

Website



## Chemical Enhanced Oil Recovery Methods

26-27 May 2026, Kazan

✉ cheorconference@yandex.ru



Website



## Practice GeoChemistry

25-26 June 2026, Kazan

Semenova Aliya

☎ +7 (986) 712-94-93

✉ pgc.conf@gmail.com

@pgc\_conf

АКТУАЛЬНЫЕ НАПРАВЛЕНИЯ  
ЦИФРОВИЗАЦИИ  
И РАЗВИТИЯ  
НЕЙРОСЕТОВЫХ  
ТЕХНОЛОГИЙ  
В НЕФТЕГАЗОВОЙ ОТРАСЛИ

Telegram



## Current trends in digitalization and development of neural network technologies in the oil and gas industry

4-5 August 2026, Kazan

Sudakov Vladislav

☎ +79600441495



Website



## Karbon

12-14 August 2026, Kazan

Abdullina Elina

☎ +7 (952) 036-99-98

✉ karbon.conf@gmail.com

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# Foundation Ecology-Geology-Oil of the Institute of Geology and Petroleum Technologies of Kazan Federal University



FOUNDATION  
**ECOLOGY • GEOLOGY • OIL**



## **EDUCATIONAL PROJECTS**

- Study abroad grants for students
- Participation in conferences and seminars
- Support of research relevant to the oil and gas and applied industries
- Procurement of equipment and materials



## **SUPPORT FOR TALENTED STUDENTS**

- Support for the creative and sports life of the Institute
- Procurement
- Scholarships for academic excellence
- Funding of field events



## **CONFERENCES AND SEMINARS**

- Organizing of unique and regular scientific forums
- Roundtables and discussions of the oil and gas industry and pertinent solutions



## **CLASSROOM FURBISHMENT**

- Procurement of new equipment and furniture
- Renovations

### **Contacts**

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