

REPORT ON THE RESULTS OF THE UNIVERSITY'S RESEARCH ACTIVITIES FOR 2025 AND OBJECTIVES FOR 2026

In 2025, the S. Seifullin Kazakh Agrotechnical Research University (hereinafter referred to as KATRU) continued its active work in scientific and innovative activities aimed at developing Kazakhstan's agricultural sector. This report presents information on the implementation of research projects, research funding, and key results achieved during the reporting period.

In 2025, the volume of research and development funding (hereinafter referred to as SRW) at the S. Seifullin Kazakh Agrotechnical Research University amounted to more than 80 grant projects, including commercialization projects, three international research projects, and more than 40 contractual projects, totaling 6,672.7 million tenge.

The following are implemented within the framework of program-targeted financing (Table 1):

- 3 scientific and technical programs of the Ministry of Science and Higher Education of the Republic of Kazakhstan (MSHE RK) (KATRU - coordinator) in the amount of 1,798.7 million tenge;

- Scientific and technological projects (STP) of the MSHE RK (KATRU - co-executor) - 2 projects for 40.0 million tenge, where the leading organizations are Zhangir Khan WKATU - 1 project and Institute of Plant Biology and Biotechnology - 2 projects;

- 3 scientific and technical programs of the STP of the Ministry of Agriculture of the Republic of Kazakhstan (MA RK) (KATRU - coordinator) in the amount of 617.2 million tenge;

- Scientific and technological progress of the Ministry of Agriculture of the Republic of Kazakhstan (KATRU - co-executor) - 8 projects worth 271.1 million tenge, where the parent organizations are Zhangir Khan WKATU - 2, LLP Kazakh Scientific Research Institute of Fruit and Vegetable Growing - 1, LLP Kazakh Scientific Research Institute of Agriculture and Plant Growing - 1, Kazakh Scientific Research Institute of Processing and Food Industry - 1, Research and Production Center for Fisheries - 1, Plant Biology and Biotechnology - 1, Kazakh Scientific Research Institute of Farming and Crop Production-2 LLP Scientific and Production Center of Agricultural Engineering - 1.

The following are implemented within the framework of grant funding (Table 1):

- State Fund of the Ministry of Science and Higher Education of the Republic of Kazakhstan (SF MSHE RK) – 57 projects worth 2,036.8 million tenge,

- SF MSHE RK for young scientists – 10 projects worth 289.4 million tenge,

- competition "Zhas Galym" (Young Scientist) - 6 projects worth 55.6 million tenge,

- 8 commercialization projects – 1,330.4 million tenge.

Also, in 2025, 3 international projects were implemented – 109.9 million tenge. In 2025, 46 contracts were concluded with economic entities for the implementation of scientific research and development for a total of 123.6 million tenge.

Table 1 - Comparative table of the volume of funding and the number of scientific programs and projects implemented at KATRU (thousand tenge)

No. p/p	Sources of funding	2021		2022		2023		2024		2025	
		Number of projects/ programs	thousand tenge	Number of projects/ programs	thousand tenge	Number of projects/ programs	thousand tenge	Number of projects/ programs	thousand tenge	Number of projects/ programs	thousand tenge
1.	Program-Targeted Funding (PTF) MSHE RK – Program Coordinators	-	-	-	-	2	1,094,644.46	3	1,792,634.93	3	1,798,665.8
2.	PTF MSHE RK - Co-executor of the program	-	-	-	-	2	18,000.0	2	12,500.0	3	40,000.0
3.	PTF MA RK - Program Coordinators	9	1,651,520.38	9	1,729,313.28	9	1,659,340.16	3	617,225.0	3	617 225, 0
4.	PTF MA RK - Co-implementers of the programs	9	253,481.97	10	317,291.38	10	322 104.23	10	290,093.75	8	271,093.7
	Total for program-targeted funding	18	1,905,002.35	19	2,046,604.66	23	3,094,088.85	18	2,712,453.68	17	2,726,984.47
5	SF MSHE RK	8	125,495.88	23	308,971.70	47	1,144,872.09	62	1 884 129, 05	57	2,036,773.08
6	SF MSHE RK for young scientists	15	253,117.56	19	346,760.95	12	236,453.30	10	266 407, 48	10	289,429.07
7	SF MSHE RK (27 months and 12 months)	11	97,385.71	3	58,168.23	-	-	-	-	-	-
8	SF "Zhas Galym"	-	-	3	8,872.39	5	39,369.10	8	69 114, 48	6	55,633.28
	Total State Funding	34	475,999.15	48	722,773.27	64	1,420,694.49	80	2 219 651, 01	73	2,381,835.44
9.9	International projects with China	2	30,246.0	1	18,000.0	1	16,192.78	2	33,695.0	3	109,912.7
10.10	Agreements with business entities	45	90,900.0	51	78,395.19	40	68 713, 58	59	101,457.63	46	123,645.89
	TOTAL:	99	2,502,147.50	119	2,865,773.12	128	4,678,386.28	158	5,065,119.77	139	5,342,378.7*

* - excluding commercialization projects

The volume of research funding in 2025 amounted to 6,672.7 million tenge. The share of income from scientific research over the past three years has averaged 35% of the university's total income, taking into account the revised budget (Table 2, Figure 1).

Table 2 - Comparative table of the share of income from research and development in the total income of the university, %

Indicator	2021	2022	2023	2024	2025
Total income of the university, million tenge	10,635.90	11,921.60	13,070.60	14,434.70	15,788.50
Income from research and development (excluding commercialization projects), million tenge	2502.1	2,865.70	4,678.30	5,043.10	5,342.40
Share of income from R&D (excluding commercialization projects), %	23.5	24	36	35	34
Income from research and development (including commercialization projects), million tenge	2,502.1	2,865.70	4,678.30	7,085.20	6,672.70
Share of income from R&D (with commercialization projects), %	23.5	24	36	49.1	42.3



Figure 1 - The share of R&D income in the total university income

In 2025, the funding volume per full-time faculty member amounted to 8,029.8 thousand tenge, with a faculty staff of 831 people (Figure 2).



Figure 2 - Amount of R&D funding per full-time research and teaching staff member, thousand tenge

In 2025, 67 applications were submitted for the 2026-2028 grant funding competition, which are currently undergoing formal review. Nine applications were submitted for the 2026-2028 young scientists competition. Seven applications were reviewed after the first stage due to formal criteria. Four of these applications were rejected after the second formal review, and three applications have been sent for review.

Publication activity of the teaching staff

The publication activity of the teaching staff in periodicals recommended by the Science and Higher Education Quality Assurance Committee (SHEQAC) of the Ministry of Science and Higher Education of the Republic of Kazakhstan demonstrated steady growth in 2021–2025, reaching a peak of 337 publications in 2024 and maintaining a high level in 2025—321 publications (Table 3). The Institute of Engineering and Food Technology (323 publications), the Institute of Business and Digital Technologies (266), and the Institute of Humanities and Pedagogical Sciences (213) made the largest contributions over the five-year period.

Table 3 – Number of publications in journals recommended by SHEQAC

Institutes	2021	2022	2023	2024	2025	Total by institutes
Engineering and food technology	27	35	53	94	114	323
Agriculture and forestry	15	40	34	34	35	158
Animal science and veterinary medicine	32	37	35	28	33	165
Business and digital technologies	40	68	68	58	32	266
Land resources and architecture	19	20	26	31	25	121
Energy	16	29	34	42	35	156
Humanities and pedagogical sciences	31	44	41	50	47	213
Total by year	180	273	291	337	321	1402

According to the analytical programs SciVal and Clarivate, a total of 1,116 articles were published over a five-year period, a significant portion of which were indexed in Scopus – 794 articles and 322 articles in Web of Science journals (Table 4).

Table 4 – Publications based on scientific research results for 2021–2025

Year	Monographs	Recommendations	Total articles	including	
				In journals in the Web of Science database	In Scopus journals
2021	12	4	233	65	168
2022	4	14	337	98	239
2023	19	34	309	86	223
2024	17	3	144	42	102
2025	23	27	93	31	62
TOTAL	75	82	1116	322	794

An analysis of the distribution of publications by quartile shows that a significant portion of scientific papers are concentrated in high-ranking journals.

Thus, Q1 journals account for 307 publications (25.8%), Q2 – 267 publications (22.4%), while the total share of publications in Q1–Q2 editions is 574 publications or 48.2%, which indicates a high orientation of authors towards leading scientific journals.

The bulk of publications come from the Q3 quartile—369 publications (31.0%), which is typical of sustained publication activity in mid-level specialized journals. Q4 journals account for 249 publications (20.9%).

In total, 79.1% of publications (943 works) were published in Q1–Q3 editions, which confirms a fairly high level of quality and competitiveness of scientific publications (Table 5).

Table 5 – Distribution of publications by quartiles

Quartile	Range	Number of publications	Share of publications, %
Q1	Top 25%	307	25.8
Q2	26–50%	267	22.4
Q3	51–75%	369	31.0
Q4	76–100%	249	20.9
Accumulated indicators:			
Quartile range		Number of publications	Total share, %
Q1–Q2 (top 50%)		574	48.2
Q1–Q3 (top 75%)		943	79.1

Commercialization of scientific developments and technologies of the university

Commercialization of scientific developments and technologies is a key area of the university's development, ensuring the transfer of scientific and scientific-technological results (SSTR) to the real economy. In 2025, the university was implementing eight commercialization projects, four of which were approved by the Scientific Supervisory Board in 2023 and four in 2024. These projects are aimed at implementing scientific developments and achieving practical and economic benefits (Table 6).

Table 6 – List of SSTR commercialization projects implemented in 2025 and applications for the grant funding competition for 2026–2028

p/p	Project name	Years implementation	Grantee
Commercialization projects to be implemented in 2025			
1	Organization of production for the regeneration and purification of vegetable oils	2023-2025	TOO "OIL-ECO.KZ"
2	Production of extruded compound feed based on alcohol and slaughterhouse waste	2023-2025	Startup LLP "MV5"
3	Implementation of technology for joint cultivation of fish and plants	2023-2025	International Taraz Innovation Institute named after Sh. Murtaza
4	Development of industrial technology for producing virus-free seed potatoes	2023-2025	LLP "Kazagroinnovation"
5	Production of fruit and vegetable products using domestically produced SMART hydroponic systems (urban agriculture)	2024-2026	LLP "Central Feedlot"
6	Production of forage grass seeds and organization of services for pasture cultivation and development of pasture rotation on a turnkey basis for livestock farmers	2024-2026	Sunak Agro LLP
7	Organization of an efficient economy using methods for creating pasture agrophytocenoses by regulating successional processes"	2024-2026	Startup LLP "Shaiyr Agro Group"
8	Waste-free production of vegetable oils enriched with micronutrients using ultrasonic extraction	2024-2026	Startup NPP Nutritech LLP
Applications for the GF RNNTD Commercialization Competition for 2026-2028			
1	Organization of production of enamel from polymer compositions with mineral substances and nano-additives for	2026-2028	TOO "ANNC Konstruktion"

	coating machine parts and building structures		
2	Organization of serial production of a complex product for stimulating growth, development, and increasing productivity and drought resistance of wheat	2026-2028	Dostyk Grain Company LLP Vasilievich
3	Implementation of artificial reproduction technology for pike perch in a closed-loop water supply system (RAS)	2026-2028	Maxwell Distribution LLP
4	Increasing the production of fish products in the conditions of lake-commercial fish farms	2026-2028	Keruen Media Kazakhstan LLP
5	Commercialization of technology for the production of standardized neuro- and immunoprotective extracts of Lion's Mane for functional nutrition	2026-2028	Startup company
6	Commercialization of technologies for restoration and innovative plasma hardening of soil-cutting parts	2026-2028	Startup company
7	Commercialization of technology and organization of production of functional antler tea drinks based on antlers of domestic populations of marals	2026-2028	Startup company
8	Production of gerodietetic sausages with a natural antioxidant effect based on plant-based bioactive ingredients	2026-2028	Startup company

In preparation for the grant funding competition for commercialization projects at the Russian National Research and Development Center for the Development of Scientific and Technical Technologies for 2026–2028, eight applications were submitted, half of which were to be implemented through the start-up company creation mechanism.

An analysis of institutes' involvement in commercialization projects (Figure 3) shows that the most active institutions are those in agriculture and forestry (4 ongoing projects, 2 applications submitted), engineering and food technology (2 ongoing projects, 4 applications submitted), and animal and veterinary science (2 ongoing projects, 2 applications submitted). However, a number of institutes demonstrate insufficient participation in commercialization processes, requiring additional measures to stimulate their activity.



Figure 3 – Comparison of the number of projects implemented in 2025 and applications submitted for the 2026–2028 competition by institute

In 2024–2026, a significant positive trend in R&D funding was observed: the total funding volume increased from 7,000,000 tenge in 2024 to 28,011,000 tenge in 2025 and the planned 81,731,000 tenge in 2026 (Table 7). While funding in 2024 was focused on a limited number of projects, in 2025 the thematic scope expanded to include agricultural technologies, plant material processing, and feed production. The planned increase in funding for 2026 indicates a shift toward larger-scale developments focused on the development and implementation of agrobiotechnology and food technologies aimed at improving food security and the sustainability of the agro-industrial complex. The authors of these projects received royalties, which helps motivate researchers.

Table 7 – Planned-actual income from the assignment of rights to the SSTR

Item No.	Name of SSTR	Years, thousand tenge		
		2024 fact	2025 fact	2026 plan
1	A bank of domestic potato virus strains maintained year-round in test plant culture	2,000		8,000
2	Technology of joint cultivation of fish and plants	5,000	5,000	
3	Technology for cleaning waste vegetable oils		1,000	9 274
4	Technologies for the production of cow's milk substitutes based on plant raw materials			11,900
5	Cement compositions with fly ash for sensory materials and hyper-pressed bricks		11,900	
6	A method for developing a raw material conveyor for year-round supply of complete feed for dairy goats		5 111	5 111

7	A method for stimulating the growth of tomato seedlings		5,000	5,000
8	Technology for producing vegetable oils enriched with berry micronutrients			15,000
9	A method for creating pasture agrophytocenoses by regulating successional processes			15,452
10	Multifunctional feed additives and enriched extruded feeds. Methods of production and use.			11,994
Total		7,000	28,011	81,731

Overall, patent and licensing activity has shown positive trends in 2023–2025. Patents for inventions and utility models of the Republic of Kazakhstan make the largest contribution to the structure of protection documents received. In the reporting year, 29 protection documents were received, including one patent registered with the US Patent Office and 28 with Kazpatent (Table 8).

Table 8 – Number of received security documents

Year	Applications submitted	Industrial property objects received					Total
		United States Patent and Trademark Office	Eurasian patent	Patent for invention of the Republic of Kazakhstan	Patent for utility model of the Republic of Kazakhstan	Patent for selection achievement of the Republic of Kazakhstan	
2023	50	-	1	1	11	-	13
2024	28	-	3	8	13	1	25
2025	20	1	-	12	15	1	29

In 2026, the university's commercialization efforts will focus on strengthening the applied focus of research, effectively protecting and leveraging intellectual property, actively promoting technologies, and expanding interactions with businesses, as well as increasing institutional engagement and developing interdisciplinary projects.

Scientific achievements

In 2025, 57 university faculty members competed for awards and state research scholarships. Applicants submitted documents in the following areas:

- state scientific scholarships - 35 people;
- state scientific scholarships for talented young scientists - 21 people;
- K.I. Satpayev Prize for the best scientific work in the field of natural sciences – 1 person.

Following a competitive selection process, Ersyn Ergazyevich Mukhanbetkaliev, a candidate of veterinary sciences and professor at the Institute of Animal Husbandry and Veterinary Science, was declared the recipient of the state scientific scholarship.

Students' research work

Based on the official letter of the Ministry of Higher Education of the Republic of Kazakhstan No. 14-0/1324-VN dated March 26, 2025 on the organization and holding of the annual Republican competition of research works and in accordance with the updated list of basic universities of the NAO "Kazakh Agrotechnical Research University named after. S. Seifullin" (hereinafter referred to as the University) in 2024-2025 was the base university for holding the annual Republican competition of students' research works in seven educational programs: 6B08101 - "Agronomy", 6B08104 / 5B081100 - "Phytopathology and Quarantine" / "Plant Protection and Quarantine", 6B08201 - "Livestock Product Production Technology", 7M070100 - "Biotechnology", 6B08401 - "Fisheries and Industrial Fisheries" / (Aquaculture and Aquatic Bioresources), 6B07301 - "Architecture" and 6B07310 - "Land Management"

In the 2024-2025 academic year, the university held the first stage of the research and development competition, during which 129 competitive works were submitted. 97 students won university-wide prizes, including 26 students awarded first-place diplomas, 40 students awarded second-place diplomas, and 34 students awarded third-place diplomas. 48 students also received letters of thanks. The best works were submitted to the second interuniversity stage of the Republican Research and Development Competition.

As a result of the 2nd stage of the Republican competition of scientific research, 35 students became prize winners:

On March 4, 2025, the student business competition "Agrodiversification 2025" was held to develop optimal solutions for cropland diversification. The National Association of Oilseed Processors awarded 1 million tenge to the first-place winner. Furthermore, as part of the university startup project competition "Agritech Startup Ideas" held in April 2025, 17 student startups (out of 46) were approved for funding.

Scientific conferences

On April 10, 2025, the international scientific conference "Seifullin Readings – 21: "Organic and Regenerative Agriculture: Global Challenges and Local Solutions" was held. A special issue of scientific articles was published in the journal "Gylym Zharshysy / Science Bulletin of the Saken Seifullin Kazakh Agrotechnical Research University: Interdisciplinary," No. 2/1 (126), Astana, 2025.

Information on scientific journals

Scientific journals are an important channel in the scientific communications system and a conduit for national science and scientists to the international level, ensuring the integration of Kazakhstani science into the global knowledge system, thereby contributing to the increased competitiveness of Kazakhstani science on the global stage.

Since 1994, the University has published the scientific journal "Bulletin of Science of the S. Seifullin Kazakh Agrotechnical Research University." Currently, it is a peer-reviewed scientific journal publishing original articles on a wide range of current agricultural research.

Until now, the magazine was published in two series:

1) Veterinary sciences, scientific editor – Doctor of Veterinary Sciences, Professor Bulashev A.K.

2) Interdisciplinary sciences, PhD scientific editor, associate professor K.S. Baibusenov.

In 2025, 9 issues of journals were published in strict compliance with the Requirements for scientific publications for the publication of the main results of scientific activity, approved by the order of the Ministry of Higher Education of the Republic of Kazakhstan No. 20 dated January 12, 2016, including the publication of an additional special issue of scientific articles within the framework of the International Scientific Conference "Seifullin Readings - 21: Organic and Regenerative Agriculture: Global Challenges and Local Solutions", held on April 11, 2025.

In total, 121 scientific articles were published: 88 in the interdisciplinary series, 33 in the veterinary series.

All articles are assigned a digital DOI identifier for unique and permanent online identification of the article on the Internet.

For the publication of articles in the interdisciplinary series for 2025, the university received income in the amount of 8,220.0 thousand tenge, including for No. 1 (124) / 2025 - 1,772.0 thousand tenge, No. 2 (125) / 2025 - 2,108.0 thousand tenge, No. 2/1 (126) / 2025 - 812.0 thousand tenge, No. 3 (127) / 2025 - 2,100.0 thousand tenge, No. 4 (128) / 2025 - 1,428.0 thousand tenge.

In 2025, on the instructions of the Committee for the Study of Scientific and Pedagogical Quality of the Ministry of Education and Science of the Republic of Kazakhstan, 417 articles on interdisciplinary and 87 articles on veterinary series for 2022, 2023, 2024, 2025 were entered into the new database of the Kazakhstan Science Citation Index.

As part of the preparation of scientific journals for further promotion to international scientific citation databases, work is underway to rebrand them, as the previously used names were excessively cumbersome and possessed a distinctly departmental character. In this regard, the following decisions were made at the Academic Council in December 2025:

1) Regarding the renaming of the journal "Bulletin of Science of the Kazakh Agrotechnical Research University named after S. Seifullin:

Interdisciplinary" to Eurasian Agrotechnical Journal. The journal's focus will be limited to agricultural sciences only.

2) On renaming the journal "Herald of Science of S.Seifullin Kazakh Agro Technical Research University: Veterinary Sciences" to Central Asian Journal of Veterinary Science/Орталық Азия ветеринария ғылымы журналы/центральноазиатский журнал ветеринарной наук.

The renaming improves the journal's compliance with international editorial practice, and a simplified and thematically accurate title improves search visibility and facilitates citation.

Currently, a phased process to change the journal name is underway: re-registration of journals with the Ministry of Culture and Information of the Republic of Kazakhstan and the ISSN International Center; name changes in the electronic and print versions of the journals; amendments to all accompanying documents (Editorial Policy, Publication Ethics, Guidelines for Authors, etc.), changes to information on the journal websites; sending letters to the SHEQAC and the Kazakhstan Scientific Citation Index and Russian Scientific Citation Index databases.

Dissertation councils and defenses of doctoral dissertations

In 2025, four additional dissertation councils were opened in addition to the seven existing ones. Currently, the university has 11 dissertation councils, ensuring 90% coverage of doctoral programs (Table 9). To achieve 100% dissertation council coverage, the university needs a dissertation council for the 8D041 program—Business and Management—which is planned to open this academic year.

Table 9 - Dissertation councils at S. Seifullin KATRU

N o.	Dissertation councils in the areas of training	Opening order	Validity periods
1	8D082 "Animal Husbandry" (8D08201 Animal Science (6D080200 Livestock Product Production Technology))	SHEQAC No. 239 of May 26, 2023 Order of the Chairman of the Board No. 303-N dated August 17, 2023	May 25, 2026
2	8D075 "Standardization, Certification and Metrology (by Industry)" (8D07501 - Standardization and quality management of products (6D073200-Standardization and certification))	Order of the SHEQAC No. 760 of October 30, 2023 Order of the Chairman of the Board No. 1.2-3/2-N dated January 10, 2024	October 29, 2026
3	8D091 Veterinary Medicine (8D09101 Veterinary welfare of animals (6D120100 Veterinary medicine), 8D09102	Order of the SHEQAC No. 103 of March 18, 2022	May 15, 2028

	Sanitary and ecological safety of livestock products (6D120200 Veterinary sanitation))	Order of the Chairman of the Board No. 580-n dated November 9, 2022	
4	8D081 "Agronomy" and 8D083 "Forestry" (8D08101 Genetics and crop breeding / 8D08102 Organic farming (6D080100 Agronomy) / 8D08103 Scientific bases of plant nutrition and fertilizer application (6D080800 Soil science and agrochemistry) / 8D08104 Phytosanitary technologies (6D081100 Plant protection and quarantine) / 8D08301 Sustainable forest resources management (6D080700 Forest resources and forestry))	Order of the SHEQAC No. 58 of February 19, 2022 Order of the Chairman of the Board No. 1.8.1-3/308-n dated June 10, 2025	May 15, 2028
5	8D073 "Architecture and Construction" (8D07301 Saulet, 8D07302 Geodesy, 8D07303 Cadastre, 8D07304 Jerge Ornalastyru)	Order of the SHEQAC No. 141 of March 29, 2023 Order of the Chairman of the Board No. 198-N dated June 1, 2023	March 28, 2026
6	8D087 "Agroengineering" (8D08701 Agroengineering (6D080600 Agricultural machinery and technology), 8D08703 Energy supply and automation of agriculture)	Order of the SHEQAC No. 305 of March 4, 2025 Order of the Chairman of the Board No. 1.8.1-3/189-n dated March 31, 2025	March 3, 2028
7	8D061 "Information and Communication Technologies" (8D06101 Big Data Analytics; 8D06103 Business Process Modeling and Optimization; 8D06102 Systems Engineering (6D070300 Information Systems))	Order of the SHEQAC No. 598 of September 22, 2023 Order of the Chairman of the Board No. 359-N dated October 10, 2023	September 21, 2026
8	8D072 "Manufacturing and Processing Industries" (8D07201 Food Technology (6D072700 Technology food products, 6D072800 Processing technology production))	Order of the SHEQAC No. 534 of June 18, 2024 Order of the Chairman of the Board No. 1.8.1-3/333 dated October 9, 2024	June 17, 2027
9	8D071 "Engineering and Engineering" (8D07101 Renewable energy, 8D07102 Heat and gas supply and ventilation in agriculture, 8D07103 Electrical complexes	Order of the SHEQAC No. 495 of April 15, 2025 Order of the Chairman of the Board No. 1.8.1-	April 14, 2028

	and systems, 8D07107 Control of technical systems)	3/250-n dated April 30, 2025	
10	8D071 "Engineering and Engineering" (8D07105 Mechanical Engineering; 8D07106 Transport, Transport Engineering and Technology)	Order of the SHEQAC No. 495 of April 15, 2025 Order of the Chairman of the Board No. 1.8.1-3/250-n dated April 30, 2025	April 14, 2028
11	8D014 - "Training of teachers with subject specialization in general development" (8D01401 - Management in technical and vocational education (D012000 Vocational training))	Order of the SHEQAC No. 2149 of December 12, 2025 Order of the Chairman of the Board No. 1.8.1-3/9-n dated January 9, 2026	December 11, 2028

In 2025, KATRU dissertation councils conducted 24 defenses of doctoral dissertations (Figure 4).

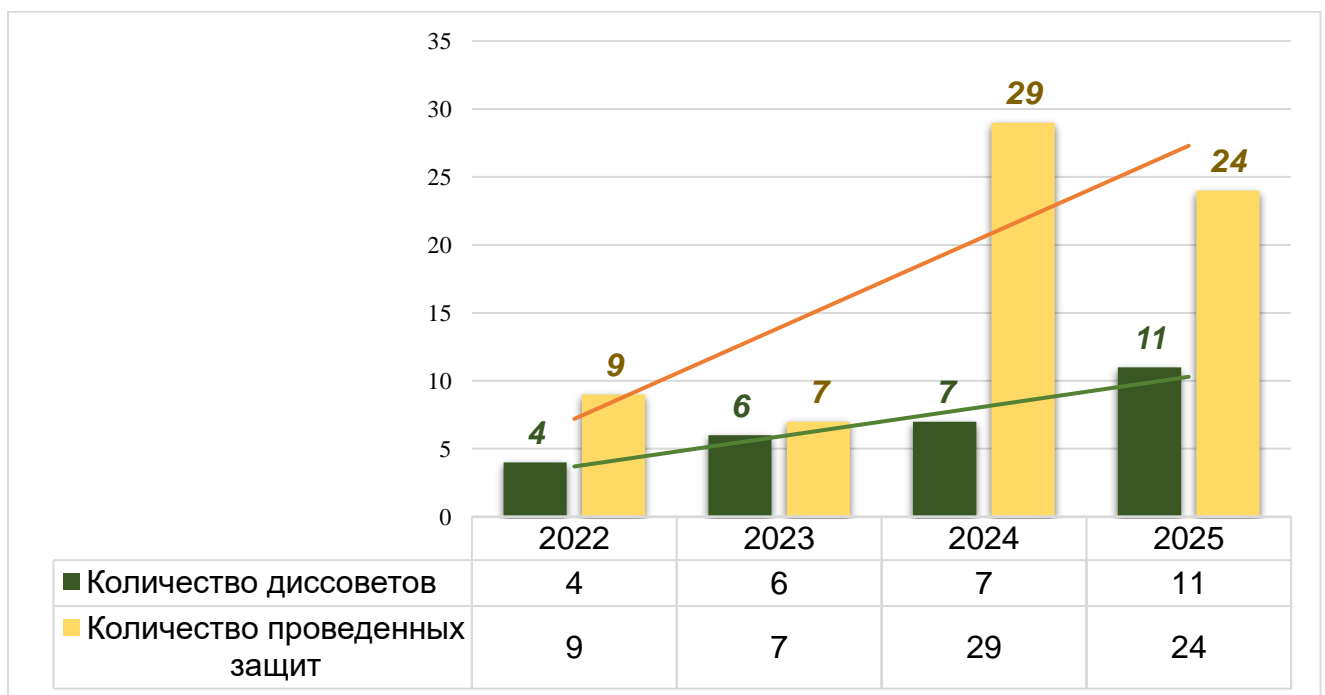


Figure 4 – Dynamics of the number of KATRU dissertation councils and dissertation defenses conducted by them

Information on the number of defenses conducted in 2025 by dissertation councils (Table 10) shows that one of the most active is the dissertation council in the field of 8D061 "Information and Communication Technologies", for which 6 defenses took place in 2024, and 5 defenses in 2025. The dissertation council in the field of 8D087 "Agroengineering", opened in March 2025, despite the short period of functioning, has already ensured 2 defenses. Dissertation councils in the field of 8D071 "Engineering and engineering",

opened in April 2025, are at the initial stage of activity, where 1 dissertation defense was recorded in the first year of functioning. Unfortunately, according to dissertation council 8D071 "Engineering and engineering" for Educational program 8D07105 Mechanical Engineering; 8D07106 Transport, transport equipment and technologies, opened in April 2025, not a single defense was carried out.

Table 10 – Doctoral dissertation defenses conducted in dissertation councils of S. Seifullin KATRU

Dissertation councils in various fields of study	Defenses in 2023	Defenses in 2024	Protection in 2025
8D082 "Animal Husbandry" (8D08201 Animal Science (6D080200 Livestock Product Production Technology))	0	1	2
8D075 "Standardization, Certification and Metrology (by Industry)" (8D07501 - Standardization and quality management of products (6D073200-Standardization and certification))	0	4	2
8D091 Veterinary Medicine (8D09101 Veterinary welfare of animals (6D120100 Veterinary medicine), 8D09102 Sanitary and ecological safety of livestock products (6D120200 Veterinary sanitation))	4	4	3
8D081 "Agronomy" and 8D083 "Forestry" (8D08101 Genetics and crop breeding / 8D08102 Organic farming (6D080100 Agronomy) / 8D08103 Scientific bases of plant nutrition and fertilizer application (6D080800 Soil science and agrochemistry) / 8D08104 Phytosanitary technologies (6D081100 Plant protection and quarantine) / 8D08301 Sustainable forest resources management (6D080700 Forest resources and forestry))	3	11	2
8D073 "Architecture and Construction" (8D07301 Saulet, 8D07302 Geodesy, 8D07303 Cadastre, 8D07304 Jerge Ornalastyru)	0	3	3
8D087 "Agroengineering" (8D08701 Agroengineering (6D080600 Agricultural machinery and technology), 8D08703 Energy supply and automation of agriculture)	Opened in March 2025	Opened in March 2025	2
8D061 "Information and Communication Technologies" (8D06101 Big Data Analytics; 8D06103 Business Process Modeling and Optimization;	0	6	5

8D06102 Systems Engineering (6D070300 Information Systems))			
8D072 "Manufacturing and Processing Industries" (8D07201 Food Technology (6D072700 Technology food products, 6D072800 Processing technology production))	Open in June 2024	0	3
8D071 "Engineering and Engineering" (8D07101 Renewable energy, 8D07102 Heat and gas supply and ventilation in agriculture, 8D07103 Electrical complexes and systems, 8D07107 Control of technical systems)	Opened in April 2025	Opened in April 2025	1
8D071 "Engineering and Engineering" (8D07105 Mechanical Engineering; 8D07106 Transport, Transport Engineering and Technology)	Opened in April 2025	Opened in April 2025	0
8D014 - "Training of teachers with subject specialization in general development" (8D01401 - Management in technical and vocational education (D012000 Vocational training))	Opened in December 2025	Opened in December 2025	0
Total number of dissertation defenses conducted	7	29	24

Thanks to the developed and implemented internal mechanism for reinstatement of doctoral students who failed to defend their dissertations in previous years, 50 doctoral students were reinstated in the 2024-2025 academic year, 38 of whom defended their dissertations during the academic year. In the current 2025-2026 academic year (September 2025 to January 2026), 38 doctoral students were reinstated for dissertation defense, nine of whom have defended their dissertations to date.

Postdoctoral studies

Postdoctoral training is being implemented through a competition for grant funding for fundamental and applied scientific research by young postdoctoral scientists under the "Zhas Ghalym" project. Over the past four years, the number of "Zhas Ghalym" postdoctoral projects and the amount of funding raised have increased: from three projects with funding totaling 56.4 million tenge in 2022 to eight projects with funding totaling 166.5 million tenge in 2025 (Figure 5, Table 11).



Figure 5 – Dynamics of postdoctoral projects "Zhas Galym"

Table 11 – Grant funding for young scientists of S. Seifullin KATRU under the project "Zhas Galym" (postdoctoral studies) in 2023-2025.

No	Full name of the manager	Project name	Priority direction	Project implementation period (year)	Amount of financing, tenge
1	Ismagulova Gulzhikhan Talgatovna	Veterinary and sanitary assessment of livestock products when using extruded feed containing non-varietal potatoes (IRN AP19174684)	Rational use of water resources, flora and fauna, ecology	2023-2025	23,770,761.80
2	Elnazarkyzy Rakhia	Transfer and adaptation of flax cultivation technology of Kazakh and Chinese varieties to increase productivity in the production of oil and fibers in Northern Kazakhstan (IRN AP19174468)	Sustainable development of the agro-industrial complex and safety of agricultural products	2023-2025	22,961,540.00
3	Omarova Akkenzhe Berdikhanovna	Potential for the use of exopolysaccharides of probiotic lactic acid bacteria in food biotechnology (IRN AP22685499)	Science of life and health	2024-2026	29,874,496.00
4	Bakisheva Zhanar Sagidollaevna	Development and production of phytogranules by the pyrolysis method for the	Science of life and health	2024-2026	29,952,146.00

		prevention of subclinical mastitis and improvement of milk quality (IRN AP22683160)			
5	Azhimahan Molder Azhimahankyzy	Justification of correlated inheritance of genes for resistance of promising potato varieties and hybrids to the main common viruses and quarantine pests (IRN AP22685460)	Science of life and health	2024-2026	30,000,000.00
6	Utarova Nazira Bakytzhanovna	Kuramynda tagamdyk talshyktar molsheri zhogary gluten siz nantokash onimderin zhasau technologysyn zhetildiru (IRN AP25796983)	Sustainable development of the agro-industrial complex	2025-2027	30,000,000.00

Activity Agrotechnopark Seifullin University

The Seifullin University Agrotechnopark was created by order of the President of the Republic of Kazakhstan as part of the "A Fair Kazakhstan – for Everyone" Action Plan and the scientific and technical program BR21882327 "Development of New Technologies for Organic Production and Processing of Agricultural Products" for 2023–2025. The establishment of a separate legal entity for the operation of the Agrotechnopark was approved by the Ministry of Agriculture of the Republic of Kazakhstan and is stipulated in the program-targeted financing schedule. The project's implementation was made possible by a direct order from the President of the Republic of Kazakhstan dated September 16, 2025, despite the current moratorium on the creation of quasi-public sector entities.

As part of the project, the QazAgroOrganic Regional Technology Park, LLP, was established at the S. Seifullin Kazakh Agrotechnical Research University. The founders of the partnership were the University, with a 51% stake, and the A.I. Barayev Scientific and Production Center for Grain Farming, LLP, with a 49% stake. The authorized capital is 1,000,000 tenge. The technology park's activities are aimed at developing organic farming, crop production, and agricultural processing technologies.

Seifullin University's Agrotechnopark is a multifunctional university innovation platform that integrates science, education, and business in the agro-industrial complex.

Main areas of activity:

- business incubation and comprehensive support for residents;
- conducting applied research and pilot testing;
- transfer and implementation of agricultural technologies;
- interaction with industrial partners and investors;

- promoting import substitution and technological modernization of the agro-industrial complex.

Residency formats:

- innovative companies;
- industrial partners;
- investment companies;
- anchor residents;
- service companies (territorial and extraterritorial).

As part of the creation of the Agrotechnopark, the following University regulatory documents were developed and approved, which the Agrotechnopark is guided by in its activities:

- Regulations on the Seifullin University Agrotechnopark, approved by Order No. 1.8.1-3/556-n dated December 1, 2025;
- Rules for the selection and activities of residents of the Seifullin University Agrotechnopark, approved by Order No. 1.8.1-3/597-n of December 18, 2025.

The University's official website has announced a competition to select residents for the Seifullin University Agrotechnopark.

Applications will be accepted from January 8, 2026, in accordance with the approved Rules.

The selection of residents is carried out on the basis of the Rules for the selection and activities of residents, approved by Order No. 1.8.1-3/597-n of December 18, 2025.

In accordance with paragraph 4.7 of the Rules, applicants who have passed the competitive selection are assigned one of the established categories of residents.

According to paragraph 4.8 of the Rules, residents may have the status of either territorial or extraterritorial residents depending on the format of their interaction with the Agrotechnopark. The specific status is determined by the terms of the Resident Agreement.

The following companies have already submitted applications to participate in the competition to select residents of the Seifullin University Agrotechnopark:

- LLP "Center for Transfer and Commercialization of Agricultural Technologies"
- LLP "DevTop"
- IB "OIL-ECO.KZ"
- startup LLP "NPP Nutritech"
- startup LLP "BIO-KATU"
- startup LLP "NFT-KATU"

The University's future research development objectives for 2026 are:

An analysis of the university's research performance for 2025 demonstrates established scientific potential, sustainable growth in research

funding, development of publication and patent-licensing activities, and the university's transition to a systemic model for the commercialization of scientific developments.

In 2026, the development of research activities at the S. Seifullin Kazakh Agrotechnical Research University will be aimed at strengthening the university's status as a leading agricultural research and innovation center, providing scientific and technological support for the sustainable development of the agro-industrial complex of the Republic of Kazakhstan.

1. Scientific and technological diversification and concentration of research on the priorities of the agro-industrial complex:

In 2026, the priority will be further diversification and deepening of scientific research in cutting-edge and interdisciplinary areas of agricultural science, including:

- organic, regenerative and climate-adapted agriculture;
- digitalization of agricultural production, implementation of artificial intelligence technologies, big data analysis and intelligent control systems in the agro-industrial complex;
- biotechnology, molecular genetics and selection of resistant and highly productive varieties and breeds;
- water, energy and resource-saving technologies;
- "green" energy and agricultural waste recycling;
- agroecological and economic models of sustainable agriculture and food security.

Particular attention should be paid to the formation of interdisciplinary scientific consortia involving research institutes, agricultural universities and industrial partners.

2. Development of the innovative ecosystem and Agrotechnopark of Seifullin University

In 2026, Seifullin University's Agrotechnopark will become a key infrastructure element for technology transfer and commercialization of the scientific and scientific-technological results (SSTR). Its key objectives are:

- development of mechanisms for business incubation, startup acceleration and technology scouting;
- expansion of the portfolio of residents, including anchor industrial partners;
- conducting pilot tests and pilot implementations of the university's developments;
- formation of a digital catalog of the university's innovations and developments (Digital Agro Map).

3. Strengthening the commercialization of the results of scientific and scientific-technical activities

In 2026, further growth in revenue from the commercialization of the SSTR is planned due to:

- increasing the number of commercialization projects and start-up companies;
- active use of mechanisms for assignment of rights and licensing;
- expansion of business contracts with agribusiness;
- increasing the role of institutes in initiating applied and commercially oriented developments.

4. Improving the quality and international competitiveness of scientific research

The priority will be to improve the quality of scientific research and its international visibility through:

- a targeted publication strategy focusing on Q1–Q2 journals;
- implementation of institutional control over the correctness of affiliations and scientific profiles;
- development of international scientific collaborations and co-authorship;
- using SciVal and Clarivate analytical tools to manage scientific performance.

5. Development of human resources and support for young scientists

In 2026, the university will focus on developing a sustainable talent pool for agricultural science by:

- expanding the participation of young scientists in grant funding competitions and postdoctoral programs;
- increasing the number of PhD dissertation defenses;
- development of scientific schools and continuity of generations of researchers;
- integration of doctoral studies, postdoctoral studies and research into a single scientific framework.

6. Integration of science, education and production

In 2026, work will continue to strengthen the practice-oriented nature of scientific research through:

- targeted involvement of master's and doctoral students in the implementation of funded research projects, program-targeted and grant projects within the framework of their individual educational and research trajectories;
- systematic involvement of undergraduate students in scientific research activities through the inclusion of a research component in educational programs and courses, as well as through the implementation of research projects, participation in start-up projects, and scientific paper competitions;

– expanding cooperation with agricultural producers, industry associations and industrial partners to conduct applied research and pilot testing

Draft resolution:

1. Take note of the report on the results of research activities of the S. Seifullin KATRU for 2025.

2. Ensure increased participation of faculty in program-targeted and grant funding from the Ministry of Higher Education of the Republic of Kazakhstan and the Ministry of Agriculture of the Republic of Kazakhstan, including through the formation of interdisciplinary and interinstitutional research teams. (Responsible persons: Vice-Rector for Research, Institute Directors, and Director of the Department of Science and Innovation. Term: permanent).

3. Activate the preparation and submission of applications for international scientific projects and joint research with foreign partners (Responsible persons: directors of institutes, director of the Department of International Cooperation, director of the Department of Science and Innovation. Term - ongoing).

4. Ensure increased publication activity in Q1–Q2 journals with appropriate institutional affiliation (Responsible persons: Vice-Rector for Research, Institute Directors, Director of the Department of Science and Innovation. Term: ongoing).

5. Continue work on unifying the university's scientific profiles and affiliations in international databases (Responsible persons: Vice-Rector for Research, Institute Directors, and Director of the Department of Science and Innovation. Deadline: End of the academic year).

6. Ensure the effective functioning of the Seifullin University Agrotechnopark, including the formation of a resident pool, the launch of business incubation and acceleration mechanisms, the conduct of pilot industrial testing, and the implementation of the university's scientific developments in the real economy. (Responsible persons: Vice-Rector for Research, Director of the Seifullin University Agrotechnopark. Term - permanent).

7. Ensure an increase in the number of doctoral dissertation defenses by strengthening academic supervision, developing and effectively operating dissertation councils, and systematically supporting doctoral students during the dissertation preparation and defense stages. (Responsible persons: Vice-Rector for Research, Institute Directors, and Dissertation Council Chairs. Term: Permanent).

8. Strengthen the integration of scientific research into the educational process, ensuring the systematic involvement of undergraduate students in scientific research activities by incorporating a research component into educational programs, curricula, and undergraduate courses. (Responsible

persons: Provost, Vice-Rector for Research, Institute Directors, Vice Provost, Director of the Department of Science and Innovation. Term: ongoing).

9. Strengthen the targeted involvement of master's and doctoral students in the implementation of funded research projects, program-targeted and grant projects within the framework of their individual educational and research trajectories. (Responsible persons: Vice-Rector for Research, Directors of Institutes, Director of the Department of Science and Innovation. Term - permanent).