

SPECIAL ECONOMIC ZONE
**TECHNOPOLIS
MOSCOW**

**TOWARDS NEW
OPPORTUNITIES**

BRINGING LEADERS TOGETHER

Annual Report
2021



CONTENTS

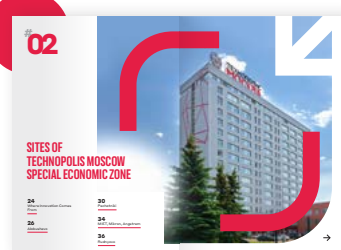
01 SPECIAL ECONOMIC ZONE TECHNOPOLIS MOSCOW TODAY

TERRITORY OF INNOVATIONS	4
ESG Principles in Action	6
OVERVIEW OF RESULTS	10
YEAR OF SCIENCE AND TECHNOLOGY	14
Scientific and Technical Council of SEZ	14
Interaction with Universities and Schools	18
Advancement of Science in Technopolis Moscow SEZ	20



02 SITES OF TECHNOPOLIS MOSCOW SPECIAL ECONOMIC ZONE

WHERE INNOVATION COMES FROM	24
Efficient Space Management	24
Advantages of SEZ Sites for Innovative Companies	25
ALABUSHEVO	26
Key Parameters	26
2021 Results	28
Development Prospects	29
PECHATNIKI	30
Key Parameters	30
2021 Results	32
Development Prospects	33
MIET, MIKRON, ANGSTREM	34
MIET	34
Mikron	35
Angstrom	35
RUDNYOVO	36
Development Prospects	37



03 ECONOMIC SECTORS

2021 RESULTS	40
People	40
Investments	41
Products and Revenue	41
MEDICAL TECHNOLOGY, EQUIPMENT AND BIOPHARMA	42
Medplant	44
Sputnik Technopolis	45
Sigma Polis	45
TZMOI	46
Amedart	46
Gematech	47
Orthomoda	47
Promising Developments of MedTech Companies at the MIET Site	48



MICROELECTRONICS, ELECTRONIC EQUIPMENT AND OPTICS

Mikron	51
NIIME	53
NexTouch	54
Test-Contact	55
Neoros	56
SPC ELVEES	57

NANOTECHNOLOGIES AND MODERN MATERIALS

Nanotechnology Center of Composites	59
Ecoplast	60
SPA Composit	62

HIGH-TECH PRODUCTION

Scientific Entertainment	66
RT-Bartholet	67
Diagnostika-M	68
Evropeyskaya Elektrotehnika	69
Additive Engineering	70

INFORMATION AND COMMUNICATION TECHNOLOGIES

ANCUD	73
Bifocom Tech	74
Photoexpert	75
Digital Solutions Workshop	76
S-Terra CSP	77

ENERGY-EFFICIENT TECHNOLOGIES

Elektroinvest Group of Companies	79
Sovelmash Design Bureau	80

04 OPPORTUNITIES FOR RESIDENTS

PRIVILEGES AND PREFERENCES	84
Privileges enjoyed by SEZ residents	84
How to become a resident	86

SERVICES & FACILITIES

Resident's personal account	90
Free customs zone	91
Event production	92
Additional opportunities for residents	93

INTERNAL COOPERATION OF RESIDENTS

PUBLIC AND PRIVATE PARTNERSHIP	96
---------------------------------------	-----------

EVENTS OF THE YEAR

TechnoEnvironment:	
promotion, development, association	98
Participation in SPIEF-2021	106
Contests	108
Road Show	109
Reception of delegations	109
Festivities	110
Exhibitions and festivals	112
Workshop sessions	113
Events	114
Company's details	116



#01

TECHNOPOLIS MOSCOW SPECIAL ECONOMIC ZONE TODAY

04
Territory of Innovations

10
Overview of Results

14
The Year of Science and
Technology in Technopolis
Moscow SEZ



TERRITORY OF INNOVATIONS

90

residents

Technopolis Moscow SEZ develops high-tech sectors of the domestic economy, giving innovative companies the best conditions for growth.

214

residents
and tenants

Strategic priorities of the SEZ



To create favorable environment for sustainable high-tech industries development



To enhance the effectiveness of existing and prospective assets



To attract investments to Moscow economy



To involve new generation (schoolchildren and students) to production culture of the capital



To make an ecosystem where companies may exchange their best innovation potential experiences through cooperation

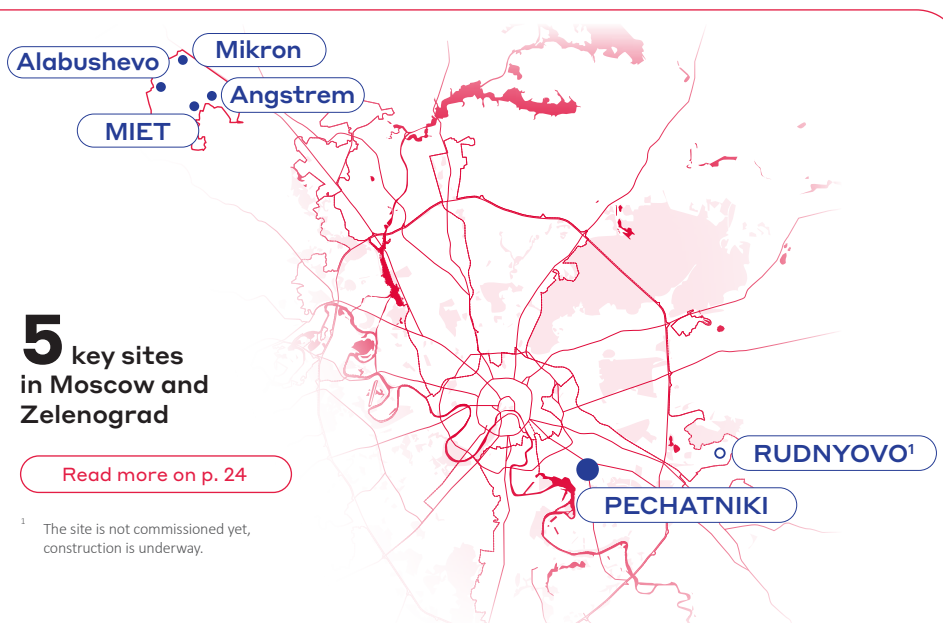
141 RUB billion
volume of revenue
of residents

8,459

jobs created
by residents

Sites

The key points of the ecosystem are sites where resident companies can localize their production and conduct R&Ds.



64.6 RUB billion
residents' investments
in the Moscow economy

223.3

hectares
total area of the SEZ

Ratings

In 2021, Technopolis Moscow SEZ strengthened its position in international and national ratings.

I place



National rating of investment attractiveness of Russian SEZs (the Association of Clusters, Technology Parks and SEZ of Russia)¹

I place



Rating of investment attractiveness of SEZs and industrial parks of the Expert analytical center²

Honourable mention⁵



Global Free Zones of the Year 2021 rating³

Runner-up⁶



Economic Zone Sustainable Recovery Strategies 2021 rating⁴

¹ Rating is compiled by the Association of Clusters, Technology Parks and SEZ of Russia with the support of the Ministry of Economic Development and Trade of the Russian Federation (MEDT of Russia) and comes as a part of the business navigator, which informs investors about the advantages of placing enterprises and organizations in the SEZ.

² Published by the Expert analytical center since 2017, covers 120 SEZs and industrial parks. The rating is compiled by fDi Intelligence, the analytical division of the Financial Times. The rating is the only international rating of special economic zones, which is globally recognized and is published regularly.

³ The rating has been published by Investment Monitor, an international publication, since 2021, aiming to recognize the most sustainable economic zones in the world since the onset of Covid-19.

⁴ The Development of Medical Technologies and Pharmaceuticals related to COVID-19 category.

⁵ New Investment category; Editor's Choice Award: Covid Fighters.

SEZ clusters

The SEZ stands out against other effectively operating industrial sites in Moscow, as its goal is to promote and develop the real economy sector of high-tech production.



Microelectronics, Electronic Equipment and Optics

33 residents



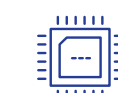
Information and Communication Technologies

14 residents



Medical Technologies, Equipment and Biopharma

19 residents



Nanotechnologies and Modern Materials

5 residents



High-Tech Production

15 residents



Energy-Efficient Technologies

4 residents

[Read more on p. 38](#)



SERGEY SOBYANNIN,
mayor of Moscow

|| The new industrialization is one of the most notable phenomena of recent years, which is stimulated by the Moscow government through a full-fledged supporting ecosystem created for high-tech manufacturing companies; and the special economic zone Technopolis Moscow – the flagship of the new Moscow industry – is one of the key elements of this ecosystem.

ESG Principles in Action

E-factor Environmental responsibility

Energy saving

Technopolis Moscow SEZ fulfills all requirements of the legislation of the Russian Federation applicable to energy saving and energy efficiency.

Energy saving initiatives:

- transition from fluorescent lamps to LED lamps;
- installation of motion detectors;
- renovation of buildings in proper time;
- regular obligatory energy inspections and development of an energy-efficiency program.

Clean air

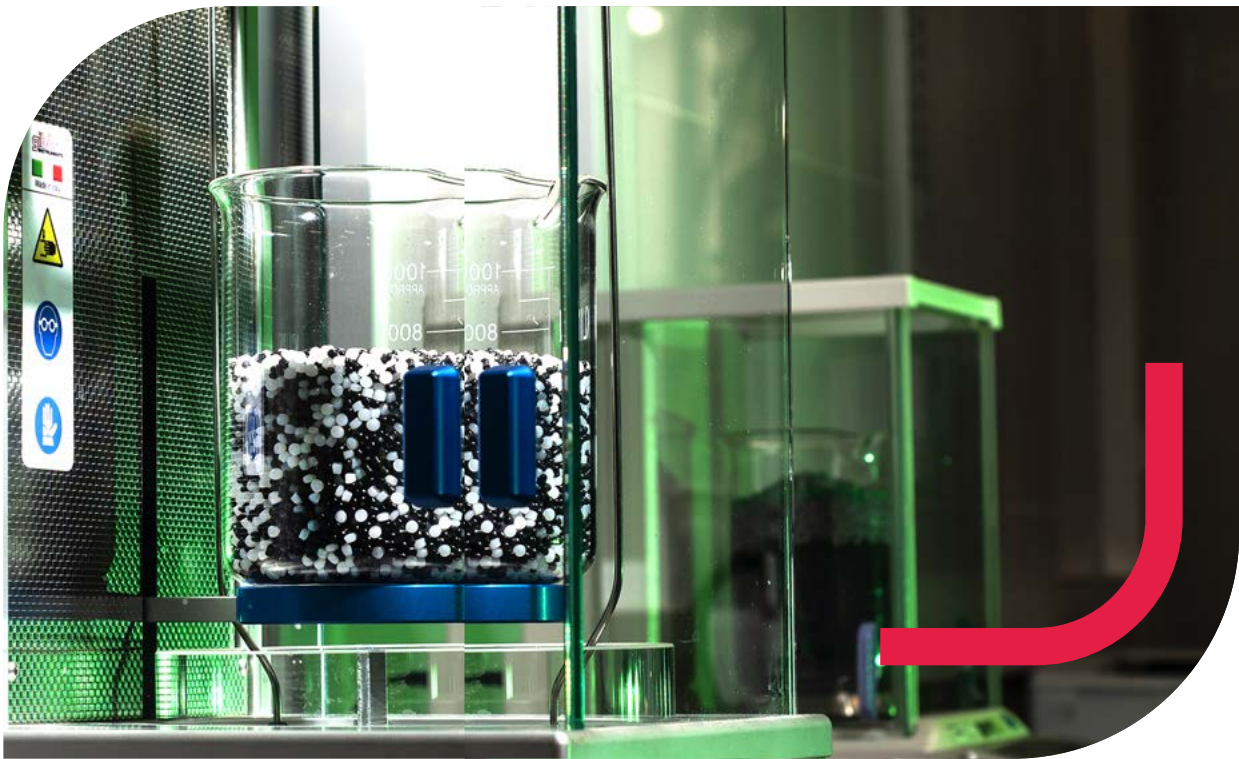
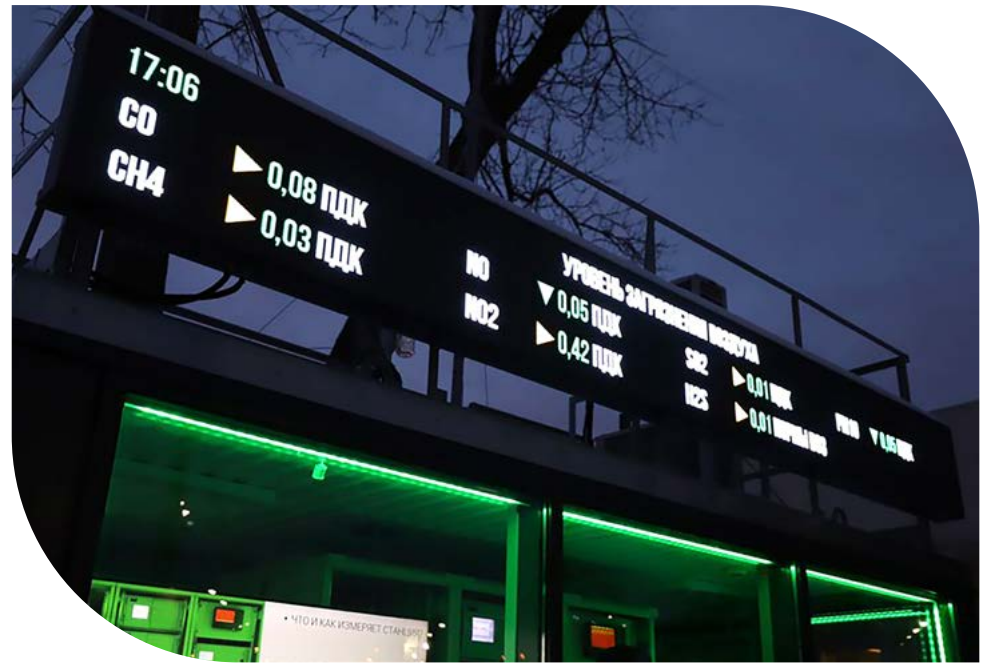
An innovative automatic environmental monitoring station was installed on the territory of the SEZ to control the concentration of carbon monoxide, hydrogen sulfide, and particulate matters (PM10).



Waste management

Waste collection and removal:

- Class IV-V – daily, including upon request;
- Class I-III (not recyclable) – quarterly, following the reports from business units;
- paper – collected separately and handed in once a year.



Environmental projects

- Digitalization of business processes: reducing the use of paper and switching to electronic digital media. The Management Company of Technopolis Moscow SEZ switched over 90% of resident companies to the electronic document flow pertaining to lease payments. The new service allowed residents to automate accounting activities. As a result, they managed to completely eliminate the use of paper-based media for the exchange of lease documents; previously the number of documents per month approximated 800;
- organization of activities to clean up the SEZ territories from waste and garbage;
- mainstreamification of the environmental protection topic in the SEZ.

S-factor
Social policy

Social guarantees

All employees of the SEZ are entitled to:

- mandatory health insurance;
- social insurance in case of temporary disability and maternity;
- social insurance against industrial accidents and occupational illness;
- mandatory pension insurance;
- loyalty program with discounts from partners and special offers.

Occupational safety

Labor safety arrangements:

- assessment of working conditions at SEZ workplaces;
- provision of personal protective equipment (PPE);
- training and testing for occupational safety and first aid to sufferers at work;
- mandatory medical examinations (checkups) of employees;
- measurements and research of harmful industrial conditions.

99%
workplaces in the SEZ
Management Company

were subject to the assessment
of working conditions



100%
employees of the SEZ
Management Company

underwent training
and knowledge checks.



Professional growth

Technopolis Moscow SEZ seeks to get the best out of employees, bringing about all conditions for their constant development and training:

- internal corporate training with the involvement of specialists of the Development Center 'Environment of Opportunities' (face-to-face/distance formats);
- regular staff turnover.

73
specialists
(20.5% of the total headcount
of the SEZ Management Company)
completed advanced training
or vocational training in educational
institutions of Moscow in 2021



Corporate culture

Events to promote corporate culture
and employee engagement:

- Donor Day. SEZ employees organize and are actively engaged in donor initiatives at the sites;
- The Kind Clothes social project accepts clothes in Moscow;
- The Kind Tops is a social-ecological project for charitable collection of plastic tops and lids to help children with special needs;
- The Fitness for the Brain is a quiz organized specifically for SEZ employees;
- session on team diagnostics and SEZ development.



G-factor
Corporate governance

Corporate governance principles of SEZ Management Company – accountability, fairness, transparency, responsibility – come from the high responsibility of Technopolis Moscow SEZ both to the shareholders and to the state and the society as a whole.

Anti-corruption measures:

- weekly monitoring of anti-corruption laws;
- work of the anti-corruption commission;
- prevention of corruption offenses, training of employees.

Development of the internal legal framework:

- the Code of Ethics and Business Conduct and the Anti-Corruption Policy were drafted in 2021.



OVERVIEW OF RESULTS

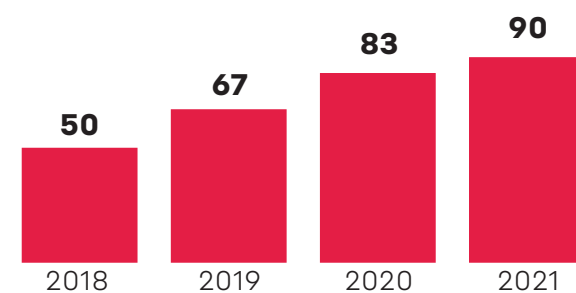
People

As of the end of 2021, more than 200 companies were localized on the territory of the SEZ, 90 of them have the status of SEZ resident.

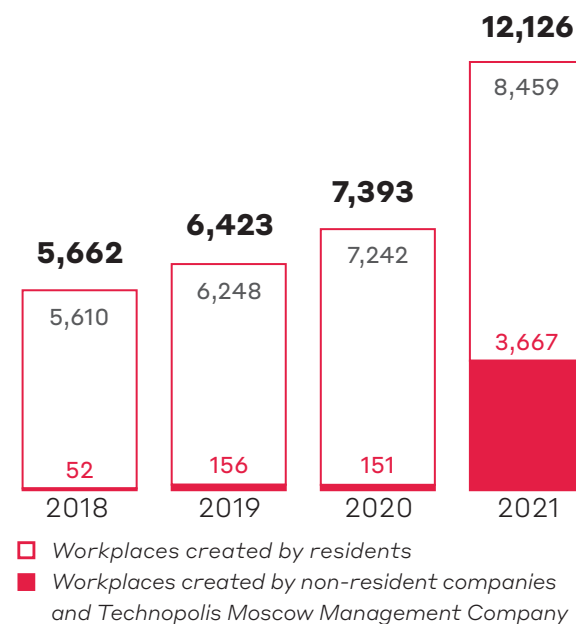
In 2021, 14 industrial investors became residents of the SEZ. The declared volume of investments of new residents exceeds RUB 15 billion; the companies plan to create more than 1.5 thousand jobs.

A total of 3,667 new jobs were created on the territory of the SEZ. In the reporting year, 1,338 of them were offered by resident companies.

Number of residents of Technopolis Moscow SEZ



Jobs in the SEZ territory since the start of operations



VLADIMIR YEFIMOV,
Deputy Mayor of Moscow for Economic Policy and Property and Land Relations

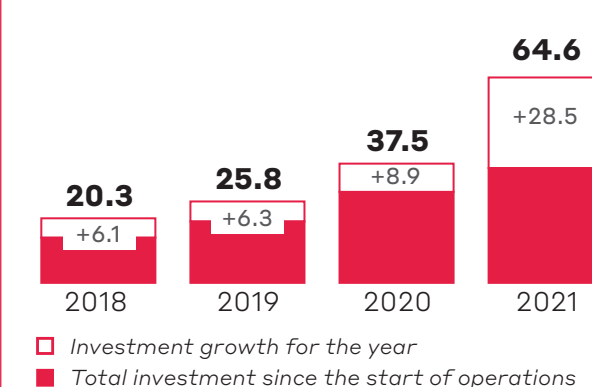
|| Moscow strengthens the status of the capital of the new industry. The most important is the environment and the opportunities that we give to investors to realize their projects.

Investments

Residents of the SEZ invested more than RUB 28.5 billion in the creation and development of high-tech production facilities in the capital in 2021, which is more than three times higher than in 2020 (RUB 8.9 billion). Compared with 2019, when companies invested RUB 6.3 billion in the city's economy, the figure went up 4.3 times.

The results of 2021 show that the total volume of all investments of residents for all time Moscow SEZ exists was RUB 64.6 billion, and in 2021 this indicator grew by 72%.

Investments of SEZ residents, RUB billion

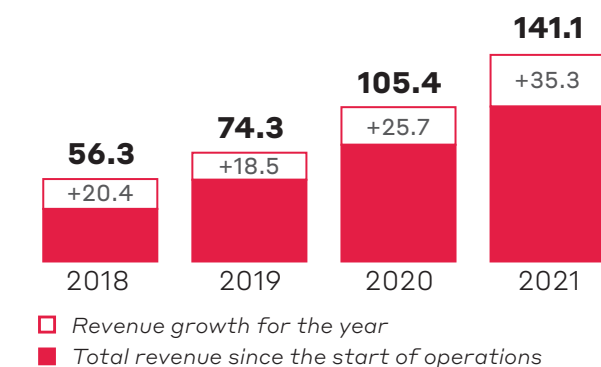


Products and revenue

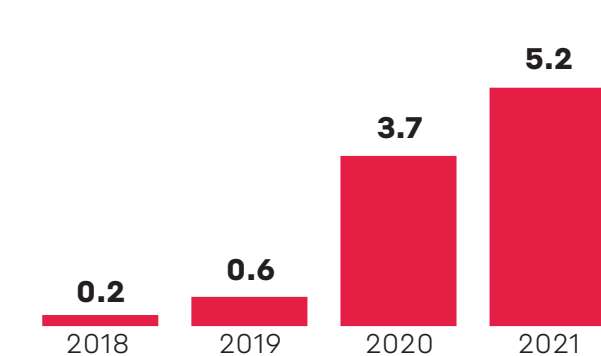
Convenient infrastructure, logistics and economic advantages of special economic zone resident status help companies to efficiently channel investments into production and steadily increase their revenue.

35.3 RUB billion
volume of revenues earned by SEZ residents in 2021, up **30%** year-on-year, and up **50%** above the 2019 level.

Revenue of SEZ residents, RUB billion



Volume of residents' proceeds from exports over the lifetime of the SEZ, RUB billion



NEW RESIDENTS, BREAKTHROUGH INVESTMENT GROWTH, SITE DEVELOPMENT

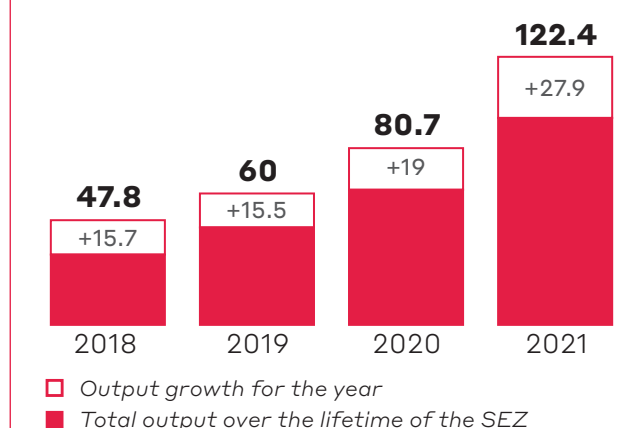
Every fifth resident of Moscow SEZ exports its products. In 2021, SEZ residents supplied products worth more than RUB 1.3 billion abroad. The largest export volume was secured by microelectronics manufacturers.

The geography of exports is constantly expanding. Now the residents' products are purchased in Europe, Asia, CIS countries, the United States and Canada, as well as Egypt, Turkey, and Israel.

Exporting companies of SEZ:

- Mikron (microelectronics, the SEZ's largest exporter)
- Angstrom (microelectronics)
- Epiel (microelectronics)
- Nanotechnology Center of Composites (products from composite materials)
- Profotek (optical transformers)
- Medplant (medical goods)
- Scientific Entertainment (educational equipment)
- Diagnostika-M (inspection equipment)
- TZMOI (infection control equipment)
- RT-Bartholet (equipment for ropeways)
- Sputnik Technopolis
- Biforcom Tech

Total output of resident companies, RUB billion

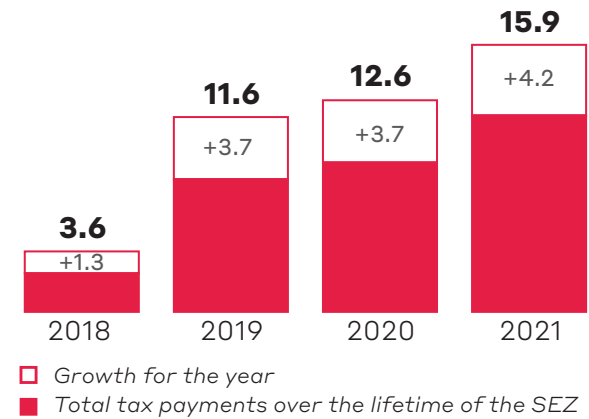


Taxes and benefits

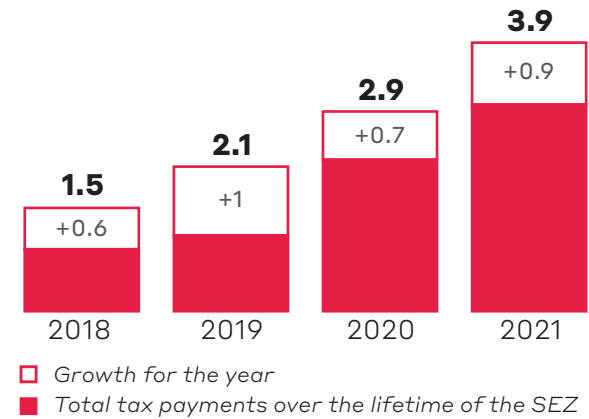
Total tax payments for 12 months of 2021 grew by 11.8% year-on-year and amounted to RUB 4.2 billion vs. RUB 3.7 billion in 2020, cumulative total of RUB 15.9 billion (the year before – RUB 12.6 billion).

The growth is attributable to the active development of the production sites, development of new products and their sales in the Russian regions and abroad. The microelectronics, optics and radio equipment cluster accounted for the bulk of tax payments in 2021.

Total tax payments by resident companies, RUB billion



Total volume of tax preferences used by SEZ residents, RUB billion



Sites

The management team focuses on creating the most comfortable conditions for existing and new industrial investors. Demand for increasing tenant-occupied space has been growing steadily. The demand to accommodate new production facilities is on the upward trend.

Alabushevo

All SEZ sites in 2021 were quickly evolving. One of the largest of them – **Alabushevo** – today is the fastest developing site. At the beginning of 2021, **Alabushevo** has three modern engineering laboratory and production buildings commissioned. They have already accommodated the production facilities of 12 high-tech companies, in particular, plants for the production of blood glucose meters, oncological testers and printed circuit boards.

157.9 hectares
area of Alabushevo



Pechatniki

The area in **Pechatniki** will increase as a part of the Southern Port reorganized industrial zone is merged into the Technopolis Moscow SEZ. Expansion of the largest SEZ site will allow to create about 1.8 thousand additional jobs.

32.4
hectares
Pechatniki area



Rudnyovo

A promising project is afoot for the land development of the **Rudnyovo** industrial zone. The site was still in active construction stage in 2021. When the construction stage is completed, there will be five land plots accommodating 19 facilities with a total area of almost 85 thousand m². The project will generate over three thousand new jobs and attract up to RUB 5 billion of private investment into the city's economy.

38.94
hectares
Rudnyovo area

THE YEAR OF SCIENCE AND TECHNOLOGY



14

of subject-matter specialists are members of the Scientific and Technical Council of the SEZ

16

projects of potential SEZ residents were evaluated by the members of the Scientific and Technical Council in 2021

in Technopolis Moscow SEZ

The year 2021 in Russia has been declared the Year of Science and Technology.

The aim was to attract young people to science, to actively involve researchers and development engineers in solving problems important to the country, and to make information about the achievements of Russian science more accessible.

The rewarding experience of the Year of Science and Technology in 2021 laid the groundwork for the Russian Science Decade to be held from 2022 to 2031.



The Year of Science and Technology 2021 in the Moscow SEZ began with the laying of the first stone in the foundation of the Microelectronics Innovation Center. The Center will be created on the MIET site and will specialize in the design, engineering, technology transfer and training in electronics. Scientific and production areas will be set up here, where ZITC and PROTON-MIET Plant teams will work together with scientists from MIET University. They will be able to work out and implement new process solutions more efficiently.

Scientific and Technical Council of SEZ

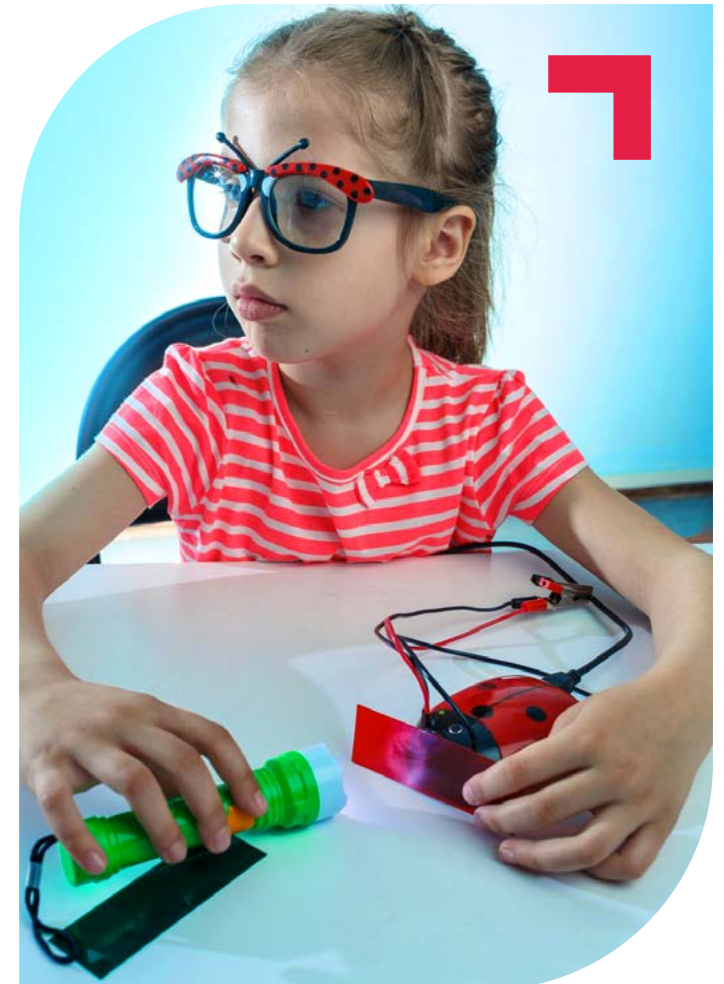
The Scientific and Technical Council of SEZ (STC) was created in 2020 for scientific and technical, information-analytical and expert support of SEZ activities.

Full information can be found on our website



STC for the younger generation

- A cooperation agreement was signed between Technopolis Moscow SEZ and school No. 1502 "Energy":
 - 'TechnoLessons' were held in two schools No. 1502 "Energy" ("Alpha" and "Gamma"). The lecturers were SEZ residents – ABB Russia, SIU SYSTEMS, Scientific Entertainment, and Bitrobotics;
 - A summer engineering school was held for "Energy" primary grades by the SEZ resident – Scientific Entertainment.



STS for sustainable development

The STC of Technopolis Moscow SEZ initiated a pilot project on adaptation of the metropolis to climate change.

The project was successfully presented at the conference "International Climate Dialogues" (organized by the Government of Moscow).

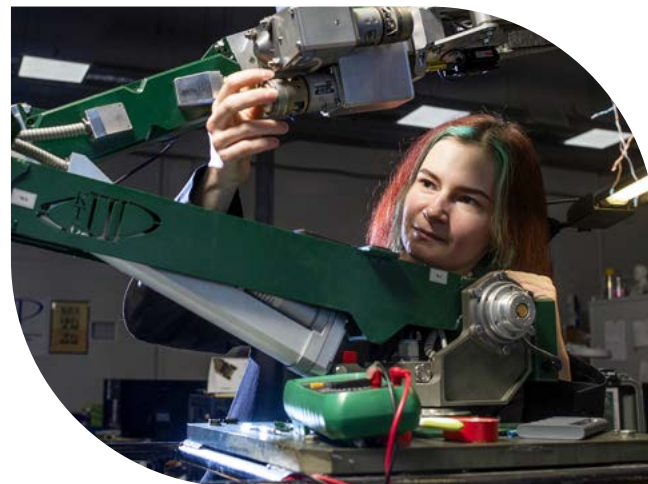


Cooperation with the scientific community

- A meeting of representatives of high-tech companies and heads of the Russian Science Foundation. The participants discussed the possibility of providing grants for SEZ residents to conduct scientific activity. Grants from the Foundation can be used to finance promising scientific research and the purchase of equipment necessary for technical support thereof.
- Cooperation agreement between Technopolis Moscow SEZ and NUST MISIS. The agreement stipulates:
 - training of personnel at the request of enterprises;
 - joint research and development works with the companies localized in the SEZ.
- "Space breakfast" in honor of the 60th anniversary of the first human space flight – cosmonaut Yuri Gagarin.

Special guest is Director of Scientific and Production Complex "Technological Center" of MIET (SPC Technological Center), Doctor of Physical and Mathematical Sciences, Professor V.V. Svetukhin.

Residents engaged in developments for the space industry discussed opportunities for inter-company collaboration.



15

SEZ residents
are engaged in the space
developments



Participation in project events TechnoEnvironment

- The STC takes an active part in organizing meetings of SEZ residents, TechnoClub and business breakfasts on the topics:
 - Enabling Mechanisms for Knowledge-Intensive Enterprises;
 - Stockout of Chips: How to Survive in the New Reality;
 - Additive Technologies. Present and Future of the Industry;
 - Industrial Design.
- STC members joined the jury for evaluating applications from SEZ residents, and also bore a part in the preparation of the Regulation on the TechnoMove 2021 Award.

Development Prospects



ALEXANDER KLIMENTKO,
Doctor of Engineering
Sciences, Professor,
Academician of the
RAS, the leading expert
of the Center of Competences
of National University
of Science and Technology
MISIS, chairman of the STC
Technopolis Moscow SEZ

It can be stated that the STC is naturally integrated into the structure of the SEZ, it established a liaison with other departments. The potential of the STC allows to solve serious scientific and technical problems, including the interaction and cooperation with scientific organizations and university science.

Given the new challenges, the STC plans to devote more attention to the following areas of activity:

- **organization of scientific and technical consultations** for residents on promising and ongoing projects, including issues of import phase-out (technological self-sufficiency);
- **personnel, education and cooperation.** Organization of interaction between SEZ residents and scientific organizations and educational institutions for the purpose of establishing organizational and informational relations, integrating efforts in order to implement joint projects, development and effective integration of science and industry;
- **financial support.** Organization of meetings of SEZ residents with representatives of foundations and development institutions which allocate grants for R&D works and offer support programs for high-tech small and medium businesses. Signing of agreements on cooperation;
- **promotion of an innovative scientific and technical information environment.** Organization of round tables, workshops (meetings of the TechnoClub) on topical issues of scientific and technological development of the areas represented in the SEZ with the involvement of leading experts of scientific organizations in Russia.



Interaction with Universities and Schools

TechnoLessons

Technopolis Moscow SEZ held TechnoLessons in Moscow schools for the first time.

The idea of the project was originated at the beginning of the Year of Science and Technology and was got off the ground on September 1, 2021.

TechnoLessons in Moscow schools were held by SEZ residents, whose areas of work are of particular interest to young people.

The participants:

- developers and integrators of robotics solutions ABB Russia;
- The manufacturer of educational equipment Scientific Entertainment with its famous "Young Chemist" kits and a complex of "Naurasha" laboratories;
- Additive Engineering, a company specializing in additive technologies.

SEZ residents spoke about new technologies, modern industries and professions of the future.



TechnoJob

The project of Technopolis Moscow SEZ dedicated to staff recruitment and internships, as well as the formation of a new concept of relations between universities and high-tech companies.

For many years already Moscow SEZ has been actively working with young people to encourage their interest in innovation and help them make the first steps in their career. Residents themselves also take an interest in the development of human resources potential.

240
students
completed internships
in various area of expertise
in 2021



The record-breaker in the number of interns was Mikron plant, where almost 60 students of higher and secondary educational institutions gained practical knowledge in microelectronics.

In 2022, Technopolis Moscow SEZ plans to form a road map for cooperation between universities and high-tech enterprises.

20
companies
took trainees in



**GENNADY
DYOGTEV,**
CEO of Technopolis
Moscow SEZ

" The SEZ Management Company is ready to make such a road map and take over the organization of interaction between companies and universities, collecting requests from both sides to effectively fill gaps in the communication chain.

TechnoTourism

To make innovations more public and popular Technopolis Moscow SEZ implements industrial tourism projects.

18
production facilities of residents
are available for tours



30
companies
participate in projects



8
online tours

>16
thousand people
total audience



26
offline tours

>270
participants
total audience



**PAVEL
ZOTOV,**
Head of On-Job Training
and Employment
Department at Moscow
State University
of Technology STANKIN

" Guided tours of high-tech production facilities of Technopolis Moscow SEZ are important for students to better understand the production processes and raise their interest. In our opinion, the TechnoTourism project of the Moscow SEZ meets this demand.

Advancement of science in Technopolis Moscow SEZ

Young scientists of NIIME were awarded with a prize of the Moscow government

Employees of JSC Research Institute of Molecular Electronics (NIIME), a resident of SEZ, won a competition for the Moscow government award for young scientists in 2021.

Nomination: Electronics and Communications

NIIME project: electrically-erasable programmable read-only memory (EEPROM) is one of the main components of modern systems used in travel tickets, bank cards, ID cards and microcontrollers. It allows storing data for up to 10 years with the multiple overwriting option.

The head of the laboratory, Igor Zubov, and the leading design engineers, Igor Ermakov and Alexander Losevsky, designed a family of IP EEPROM blocks with an information capacity of up to 1 Mbit and developed a new memory cell.

The Prize of the Moscow Government for Young Scientists is awarded annually to young specialists for outstanding results in fundamental and applied research, as well as for the development and implementation of new technologies, devices, equipment, materials and substances.



VLADIMIR BESPALOV,
Doctor of Engineering Sciences,
Professor, Rector of MIET

Today the cultivation of high-tech markets is a national challenge. Our priority tasks are the strengthening of technological capabilities and human potential, as well as the mastering of new industrial technologies. Globally, such tasks are solved by industry research and education centers with strong scientific and technological and innovative infrastructure, such as Massachusetts Institute of Technology and Inter-university Microelectronics Centre. The best practices of these centers form the basis of the destination model of MIET. MIET National Research University trains personnel using the most advanced teaching methods. We are exploring new technologies that will make a significant contribution to the development of digital economy markets. The curricula are aligned with relevant and promising comprehensive projects, including those in the field of transport, healthcare and communications, which exercise significant influence over the quality of life.

The high-quality talent training system will be focused on training key specialists capable of solving urgent tasks of the digital economy, science, and industry. The interaction with domestic and foreign enterprises is an important tool in staff training. The continuous talent management framework (from a schoolkid to a skilled specialist) drives an inflow of new personnel.

More than 200 scientists work at the enterprises of Technopolis Moscow SEZ

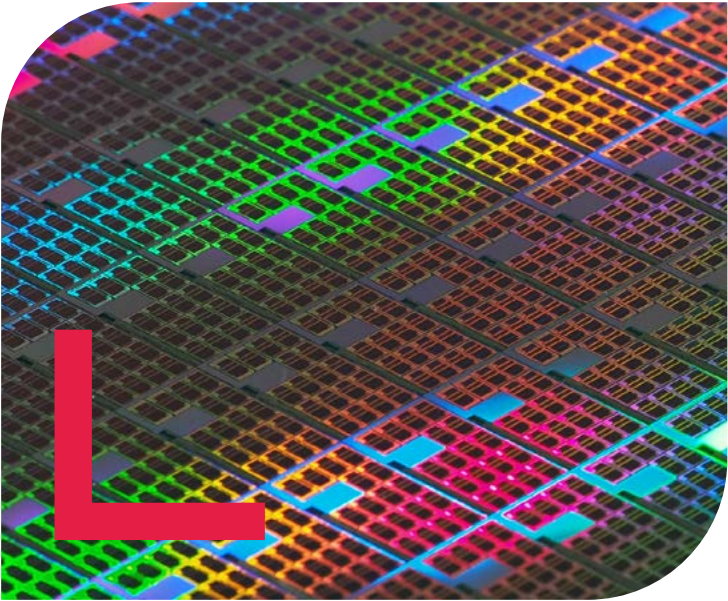
More than 200 candidates and doctors of science are involved in scientific, implementation and production activities in SEZ enterprises. They are mainly engaged in the microelectronic industry – about 140 scientists work in this cluster; the leaders are such residents as NIIME, Zelenograd Innovation and Technology Center (ZITC), Angstrom, and Mikron. Besides, during the time of their work in the capital SEZ about 30 companies filed the results of their intellectual activity in the form of patents, licenses, certificates, know-how and trademarks.



Over 200 scientific professionals work at the enterprises of the capital SEZ



30 companies recorded patents, licenses, certificates, know-how and trademarks



#02

SITES OF TECHNOPOLIS MOSCOW SPECIAL ECONOMIC ZONE

24

Where Innovation Comes
From

26

Alabushevo

30

Pechatniki

34

MIET, Mikron, Angstrom

36

Rudnyovo



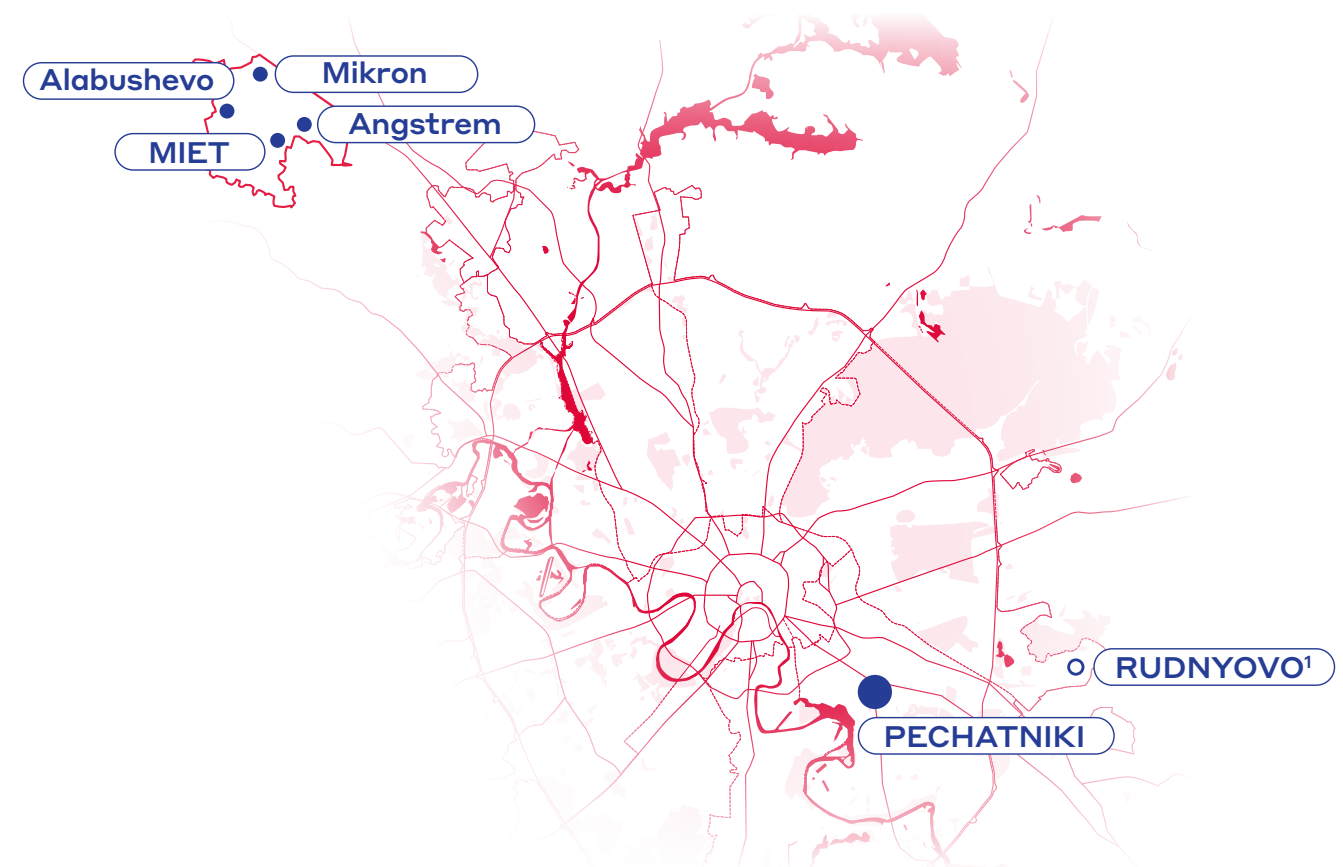
WHERE INNOVATIONS COMES FROM

88.8%
of usable space
is leased and/or
owned by residents
of the SEZ as
of the end of 2021

Efficient Space Management

Technopolis Moscow SEZ makes the best economic use of its spaces, while safeguarding the interests of the SEZ participants.

The creation of new infrastructure that caters for the needs of the resident companies is the key principle for the efficient use of the usable space of the SEZ. A flexible policy with regard to the construction of new infrastructure facilities is one of the advantages offered by the SEZ to high-tech companies which can choose such conditions for the location of production works that are able to adapt to technological and economic changes.



Advantages of SEZ Sites for Innovative Companies

Residents can select premises that meet the engineering, technological or other requirements of production with industry specifics: for example, so-called clean rooms, buildings with foundations to accommodate high-precision equipment.

The SEZ sites have premises to accommodate a showroom, meeting room, rooms for seminars with potential consumers, conferences, forums and exhibitions, etc.

Stable lease terms. It is important because when innovative companies arrange research laboratories and production works, they have to make sizable investments in repair and renovation of premises to meet their needs, and in some cases the equipment is not subject to further dismantling.

Reliable power supply.

Transport accessibility.

ALABUSHEVO

31
residents

>960
workplaces

The largest site of Technopolis Moscow SEZ.

Companies located at the site of Alabushevo handle research and development in a variety of sectors of modern high-tech industry. Their products enable import substitution in strategically important for Russia spheres.

Key Parameters

Location

The site is located in the Silino district of the Zelenograd Administrative District (ZelAD) and has good transport accessibility:

- 5 km to the Leningrad highway;
- 20 km to the Moscow Ring Road;
- 15 km to Sheremetyevo International Airport;
- 3.5 km to Kryukovo freight and passenger station;
- 100 m to Alabushevo passenger train station;
- 25 m to public transport stops.



Area

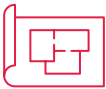
Total area:
157.9 hectares



The area for brownfield objects and intra-site infrastructure –
47 hectares



>70 % of the area
of Technopolis Moscow SEZ



3.1 thousand m²
vacant
rental areas



The area
for greenfield objects –
47.12 hectares



8.86 hectares
vacant
built-on areas



Engineering networks

- Electricity – 110 MW
- Water supply – 2,420 m³/day
- Water disposal – 1,807 m³/day
- Heat supply – 184 Gcal/h

+5
new residents

+29 thousand m²
of laboratory and
industrial spaces

+70 %
to the number of
workplaces

2021 Results

Innovative laboratory and industrial buildings No.1-3 were commissioned, with a total floor space of over 29,000 m². This helps the site to attract residents that do not need to construct their own buildings.

The following was provided to assist the residents and tenants in launching the production facilities and introducing the production sites:

- supervision and advisory work during the design process;
- optimization and control of design and construction schedules;
- provision of technical customer and construction control services;
- timely and quick commissioning.

Design of the third stage of Alabushevo power supply with a capacity of 51 MW was completed.

A multilevel parking lot for 900 cars was opened.

New residents at the Alabushevo site in 2021

Residents	Focus area
LLC Isocarb 35 workplaces 20 years agreement duration period	• Production and sale of breathing tests. • Introduction of modern non-invasive diagnostic methods on the Russian market. • Research and development activities. • Production of pharmaceutical chemicals, medical diagnostic and therapeutic appliances; and medical devices
LLC S-Terra CSP 150 workplaces 20 years agreement duration period	• Development and production of network information security on the basis of IPsec¹ VPN² technology
LLC Generium-Next 251 workplaces 35 years agreement duration period	• Development and production of biotechnological drugs and biomedical cell products in the orphan³ segment of the market
LLC Drive Electro 75 workplaces 35 years agreement duration period	• Design and production of electric and hybrid systems for commercial vehicles and public ground transport. • Production of electric buses
LLC PSK Vesna 34 workplaces 35 years agreement duration period	• Production and sale of metal structures and metal products for aerospace, engineering, medical and construction industries. • 3D-metal printing for manufacturing products of elaborate design: implants, bone plates, turbine housings, heat exchangers, laser components



Development Prospects

- On the territory of the site there is Alabushevo Technopark that is being built up without budget investments; the area of the Technopark may be up to 15.2 hectares.
 - **I stage** (50 thousand m²): term of delivery – third quarter of 2023;
 - **II stage** (56 thousand m²): implementation in 2025–2027.

The planned result

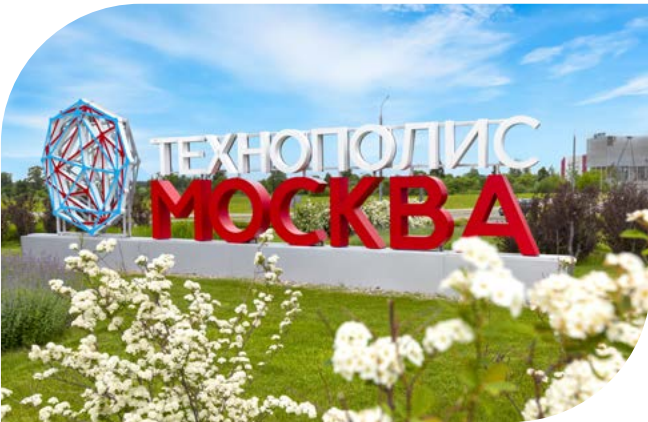
>40
residents

>5.5 RUB billion
of private investment

>2.5 thousand
workplaces

The construction of two more innovative laboratory-industrial buildings (No. 4-5) and laboratories for independent pilot production¹ is financed out of budget resources.

The construction of new buildings will step up the rate of development of pilot knowledge-intensive production in the Moscow region.



¹ IPsec (IP Security) is a set of protocols for protecting data transmitted over the IP protocol.
² VPN stands for the Virtual Private Network.
³ Orphan diseases (rare disease) are diseases affecting a small part of the population.

¹ Deceleration radiation is electromagnetic radiation emitted by a charged particle during its dispersion (diffusion) in an electric field.

PECHATNIKI

44
residents

>2.8
thousand
workplaces

The site is located near the Moscow Third Ring Road on the territory formerly occupied by the Moskvich automobile plant. The site offers great opportunities for the development of science-intensive production in any field of activity.

Key Parameters

Location

The site is located in the area of Pechatniki (South-Eastern Administrative District) and has excellent transport accessibility:

- 15 minutes by car to the center of Moscow;
- 5 minutes on foot to the metro, commuter rail and Tekstilshchiki Moscow Central Diameter (MCD);
- 2 minutes by car to the Third Transport Ring Road;
- 1 minute by car to Volgogradsky Prospekt and Lyublinskaya Street.



Area

32.4 hectares
land area



6.1 thousand m²
vacant spaces



Pechatniki Brownfield
414.3 thousand m²

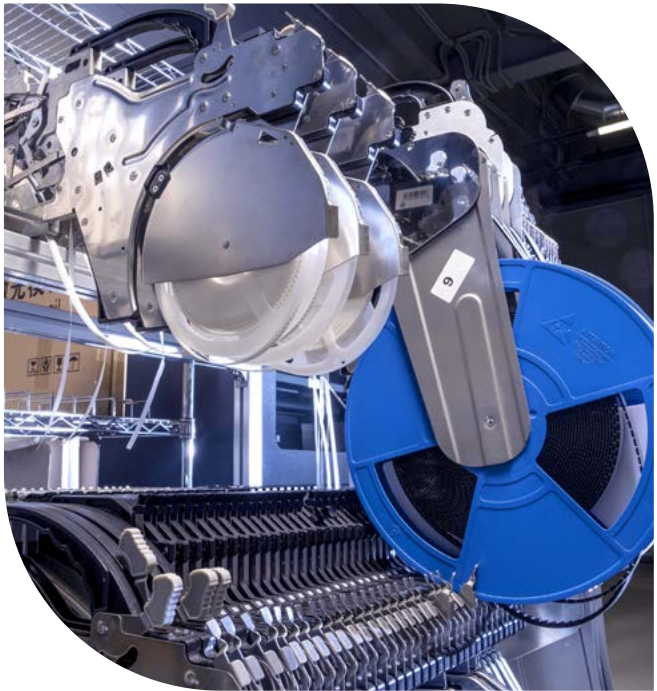


Blocks of clean rooms
for biotechnology
and microelectronics –
over **7** thousand m²



Engineering networks

- Electricity – 60 MW
- Water supply – 2,150 m³/day
- Water disposal – 1,150 m³/day
- Heat supply – 56 Gcal/h



+9
new residents

+22 thousand m²
Increase in leased
production and office
spaces for residents
and tenants

+45%
to the number of
workplaces

2021 Results

- Seven residents commissioned new manufacturing facilities that will give the city about 900 jobs in pharmaceuticals and medical devices production, high-tech manufacturing, energy efficiency, microelectronics, optics and robotics.
- A modern center was launched to test new equipment for electromagnetic compatibility – the ability to work without causing electromagnetic interference that is dangerous to other equipment or humans.

New residents at the Pechatniki site in 2021

Residents	Focus area
LLC RPC MacroOptics 72 workplaces 20 years agreement duration period	• Manufacture of optical components, opto-mechanical components, and opto-electronic systems for science, civilian and medical applications
LLC STC HiTech 10 workplaces 19 years agreement duration period	• Building of telecommunications infrastructure, data processing and storage systems, audio and video conferencing systems, contact centers, and integrated infrastructure solutions
LLC Mesoformula 49 workplaces 20 years agreement duration period	• Development and production of innovative products for injectable aesthetic medicine and professional cosmetology in compliance with all GMP¹ standards
LLC Sputnik Technopolis 587 workplaces 20 years agreement duration period	• Production of domestic vaccine against COVID-19 – Sputnik V
LLC Energoberezhnie 55 workplaces 20 years agreement duration period	• Development of solutions in energy saving and improvement of energy efficiency of heat supply systems. • Implementation of energy service projects
LLC RT-Bartholet 120 workplaces 20 years agreement duration period	• Designing and construction of ropeways. • Production of equipment for amusement parks and passenger vehicles
JSC S-Platforms 27 workplaces 20 years agreement duration period	• Big data storage, processing and analysis services for companies of any line of business
LLC Business System Telehouse 54 workplaces 20 years agreement duration period	• Cloud service of broad feature set allowing to receive and store unlimited amount of data with access from anywhere in the world
LLC Yago 17 workplaces 20 years agreement duration period	• Development of software and automated systems for outsourcing contact center platforms

¹ GMP (Good Manufacturing Practice) is an international standard that defines the requirements for the production of drugs, health supplements, food supplements and certain foods.

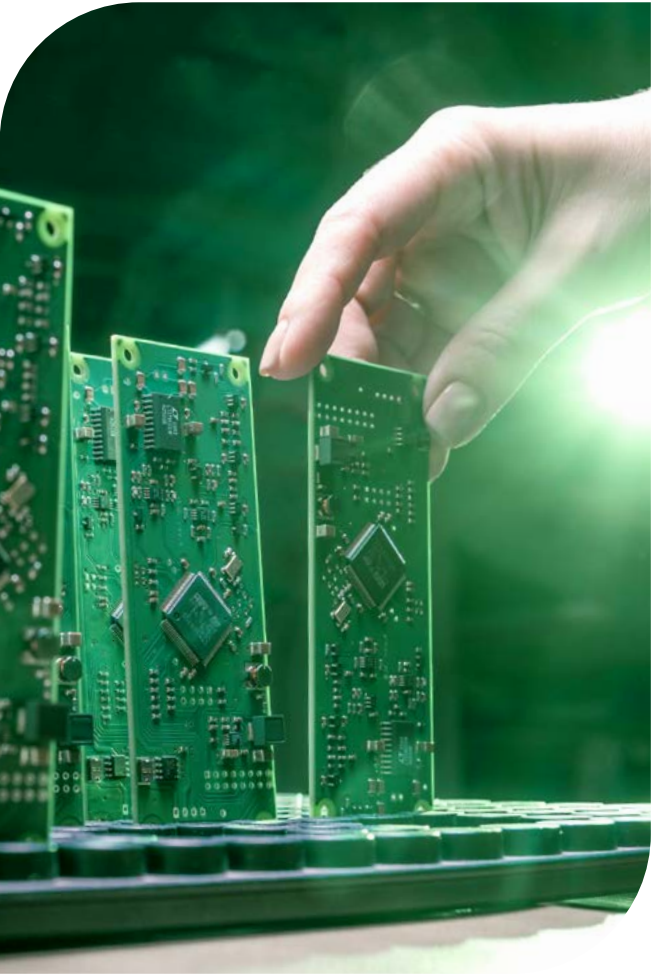


Development Prospects

Pechatniki site is a ready-made infrastructure for high-tech business. Planned expansion of the site by merging a part of the Southern Port industrial zone will allow to build up to 145 thousand m² of additional production premises and create about 1.8 thousand jobs.

3.7 RUB billion
estimated volume of
private investments
in the site expansion

New production facilities in medicine, microelectronics and other fields will be opened in Pechatniki in 2022.



MIET, MIKRON, ANGSTREM

15
residents

>4.6 thousand
workplaces

The SEZ sites in Zelenograd house the key manufacturers of the microelectronics cluster.

MIET

Area

4.5 hectares

The site is located in the Staroye Kryukovo district of ZelAD and was created on the basis of existing enterprises that previously received the status of SEZ residents. Office and production premises at this site are leased directly by the companies-owners.

Development Prospects

The construction of the Innovation Center for Design, Engineering, Technology Transfer and Specialized Staff Training in Electronics is currently underway on the MIET site; the commissioning is scheduled for the end of 2023. In 2022, a five-story production building will be completed to house production areas and research and development departments. An 11-storey administrative complex with engineering, technology transfer and specialized training centers will be erected by the end of 2022.



Mikron

Area

13.3 hectares

The Mikron site located in the Matushkino district of ZelAD is home to a same-name enterprise (Mikron), Russia's largest manufacturer and exporter of microelectronic products.

Development Prospects

A new layout of the Mikron site was approved. It is planned to build production, public production and public utility warehousing facilities on the territory of the site. A microelectronics development office and exhibition center of 15,000 m² will occupy a special place here.

>42 thousand m²
total area of new capital
construction projects



Angstrom

Area

15.2 hectares

The site located in the Staroye Kryukovo district of ZelAD will accommodate the full-cycle production of microcircuits and power semiconductors.



RUDNYOVO

Promising site
in the administrative
boundaries of Moscow.

Location

- 5 km from the Moscow Ring Road;
- 1.8 km from Nekrasovka metro station;
- 10 km to the M5 Ural highway (Novolazanskoye highway);
- 12 km to the M7 Volga highway (Gorkovskoye highway);
- 44 km to Domodedovo airport;
- 22 km to Zhukovsky airport.

Nearby will be the North-East Expressway.

In 2021, the Ministry of Industry and Trade of the Russian Federation included the Rudnyovo site in the federal register of industrial parks. This status gives the right to apply for the status of investment priority project of Moscow to create an industrial (manufacturing) park and to receive significant regional tax incentives.



Development Prospects

The planned result

of the project implementation

3 thousand
workplaces

>40
new production facilities

up to **5** RUB billion
of private investment

The Rudnyovo site will become one of the centers for the development of high-tech industry in Moscow in 2023.

The construction of the Rudnyovo industrial park started at the end of 2020. It is planned to arrange more than 280 thousand m² of the industrial spaces on 38.92-ha area. Construction of the first and second stages is expected to be completed in 2023, when the accommodation of residents will begin.

- **I stage:** 15,4 hectares of land, 131,2 thousand m² of premises. Term of delivery – 2022.
- **II stage:** 4,77 hectares of land, about 60 thousand m² of premises. Implementation timeline – 2022–2023.
- **III stage** (greenfield): 18,77 ha of land, about 116 thousand m² of premises. Implementation timeline – 2023–2027.

The construction of the industrial park uses home-made construction materials; import substitution is 100% for a number of positions. High-quality Russian analogues were selected for all previously imported positions. Most of the goods are supplied by enterprises in the Moscow region and nearby regions.

In addition to the production buildings, on the territory of the site there will be:

- administrative and business center;
- congress-center;
- warehouse-garage with the area of 1,533 m².

ECONOMIC SECTORS

40
2021 Results

42
Medical Technologies,
Equipment and Biopharma

50
Microelectronics,
Electronic Equipment and Optics

58
Nanotechnologies
and advanced materials

64
High-tech production

72
Information and communication
technologies

78
Energy-Efficient Technologies



2021 RESULTS

8,459

workplaces created by the residents of Technopolis Moscow SEZ since the beginning of SEZ functioning

1,338

workplaces created by residents in 2021

People

Workplaces created by the residents since the beginning of SEZ functioning

457 workplaces

High-Tech Production

243 workplaces

Energy-Efficient Technologies

1,006 workplaces

Information and Communication Technologies

228 workplaces

Nanotechnologies and Modern Materials

1,573 workplaces

Medical Technologies, Equipment and Biopharma

4,952 workplaces

Microelectronics, Electronic Equipment and Optics

In 2021, the leaders in workplace creation were the companies specialized in medical technology and biopharmaceuticals. During the year, the number of employees in the cluster companies increased by almost 1,100 people: five times more than in 2020, when the increase was about 200 employees. Such dynamics is due to the fact that four new residents of the SEZ launched large production facilities.

Investments

The greatest volume of investments in 2021 provided the companies of two clusters: Medical Technologies, Equipment and Biopharma; Microelectronics, Electronic Equipment and Optics.



The volume of residents' investments in 2021, by clusters

0.6 RUB billion

High-Tech Production

0.5 RUB billion

Energy-Efficient Technologies

1.0 RUB billion

Information and Communication Technologies

0.04 RUB billion

Nanotechnologies and Modern Materials

11.1 RUB billion

Microelectronics, Electronic Equipment and Optics

15.2 RUB billion

Medical Technologies, Equipment and Biopharma

Products and Revenue

The leaders in terms of revenue growth and volume of production in 2021 are the companies specialized in microelectronics

The share of companies of the cluster accounted for almost half of the total revenue of residents: RUB 15.9 billion.

Among the leaders are also representatives of the Medical Equipment and Information & Communication Technologies clusters: together, they generated more than RUB 13 billion for their products.

The structure of residents' revenue in 2021, by clusters

1.6 RUB billion

Energy-Efficient Technologies

0.9 RUB billion

Nanotechnologies and Modern Materials

1.8 RUB billion

High-Tech Production

15.9 RUB billion

Microelectronics, Electronic Equipment and Optics

6.9 RUB billion

Information and Communication Technologies

8.2 RUB billion

Medical Technologies, Equipment and Biopharma

The volume of products manufactured by residents in 2021, by clusters

0.9 RUB billion

High-Tech Production

0.8 RUB billion

Energy-Efficient Technologies

1.0 RUB billion

Nanotechnologies and Advanced Materials

12.96 RUB billion

Microelectronics, Electronic Equipment and Optics

5.2 RUB billion

Information and Communication Technologies

8 RUB billion

Medical Technologies, Equipment and Biopharma

MEDICAL TECHNOLOGIES, EQUIPMENT AND BIOPHARMA

Workplaces
1088

created by
the cluster
residents in 2021

1533

total as at
the end of 2021

Cluster residents'
investments

15.2

RUB billion
(over 50% of total
investments) in 2021

22

RUB billion
total, over the
period of the SEZ
functioning

Cluster residents'
revenues

12.3

RUB billion
in 2021

13.3

RUB billion
total, over the
period of the SEZ
functioning

The cluster covers a wide range of products: from disinfection equipment to vitally important medicines. The cluster companies produce drugs for the treatment of oncological, endocrine and immune diseases, vaccines, as well as products for emergency medical care, items for urological and stoma patients and disinfection equipment for medical institutions.

MedTech companies are constantly developing and improving their production. During the pandemic they established the production of advanced equipment for disinfection of medical products, first aid and water treatment, and supplied the companies of related industries with the necessary components.

Significant growth in production rates and production volumes was made possible by investing in their own development: thus, in 2021 the cluster companies provided more than 50% of the total investment in Technopolis Moscow SEZ.

Products
manufactured by
the cluster residents

8.2

RUB billion in 2021

11.8

RUB billion
total, over the
period of the SEZ
functioning



2021 achievements

In 2021 Technopolis Moscow SEZ entered the Global Free Zones of the Year by English edition fDi Magazine, having won in the industry sector nomination — Development of Medical Technologies and Pharmaceuticals Related to COVID-19.



**ANDREY
KOLOKOLTSOV,**
CEO of Amedart

Throughout 2021, pharmaceutical companies continued to invest in the development of tests, vaccines and drugs for COVID-19 therapy — freeing up their facilities to refocus production on vaccines, and implementing unified supply management platforms to reduce the time span of delivery their products to consumers.

Some successful cases of 2021 include the issues of state regulation: implementation of labeling and compulsory licensing. Another achievement is the change in the situation on the pharmacy market due to the permission received for the online sale of over-the-counter medicines, which gave the opportunity to enter this market to new players.

The key problems of the Russian pharmaceutical industry today are related to import substitution. Firstly, dependence on import of pharmaceutical substances is critical. Therefore, the task of increasing the level of localization of substance production is a priority. Secondly, we need to move away from the situation where the only source of innovative drugs on the Russian market is the products of foreign manufacturers. The Pharma-2030 strategy adopted in 2021 is of great importance in achieving the goals set, according to which the localization of substances production and full-cycle production of pharmaceuticals becomes the main direction of the industry's development.



**ALEXANDER
TONEVITSKY,**
Doctor of Biology,
Corresponding Member
of RAS, Dean of the
Department of Biology and
Biotechnology, National
Research University Higher
School of Economics,
Member of Scientific
and Technical Council
of Technopolis Moscow SEZ

Over the last decade we have seen an exponential growth in many areas, including medicine and biopharma. This applies to the development of breakthrough drugs, laboratory diagnostics, sequencing and genomic editing technologies, development of telemedicine, innovative materials, as well as data processing and computer modeling methods.

An extremely important factor is the increase in life expectancy of the population, which leads to the development of technologies aimed at maintaining health and active longevity, such as early diagnosis and treatment of neurodegenerative disorders, cancer, cardiovascular diseases and more.

In the near future, telemedicine will be actively developing, as well as both non-invasive wearable gadgets and implantable sensors that analyze health indicators and are capable of informing a person, his/her family or a doctor about health problems in a timely manner.

And, undoubtedly, the most important area of development in the field of biopharma remains the development of breakthrough medicines.

34

medical products
making the line

15

patents on inventions

Medplant

Resident of Technopolis Moscow SEZ since 2018

-  Pechatniki
-  92 workplaces
-  medplant.ru

Developer and manufacturer of portable innovative medical devices for emergency care. More than 20 thousand ambulances in all regions of Russia and neighboring countries are equipped with the company's products.

2021 accomplishments:

- RUB 28.4 million of investments (RUB 130 million since 2018)
- Production output made RUB 787 million (RUB 3 billion since 2018)

Production of the Temp cardiopulmonary efficiency indicator (developed by the company's specialists) was launched. The device is used during indirect cardiac massage. The metronome sets the rhythm, and the built-in sensor determines the depth of compression of the sufferer's chest.

The innovative development can be used in training centers.

TechnoMove 2021 Award winner

- **TechnoProgress** — for industrial and scientific developments and experience in their implementation
- **TechnoSolution** — for the projects implementing anti-crisis strategies in a complex situation



**GAREGIN
MAMDJIAN,**
President of the company

Thanks to the decision to become a resident of the SEZ, we managed to start the production of electronic devices quite rapidly. Since 2018, portable medical electronics (devices and comprehensive units) have become the main focus of the company, and today MEDPLANT is the only developer and manufacturer of medical devices for emergency care in Russia. We increased our staff, and the space we occupy has grown. The status of a resident of Technopolis Moscow SEZ gives many tangible advantages: various benefits and services allow us to reduce costs and free up more resources for development. And being in such a significant capital city cluster increases the chances of city orders and useful contacts.

Sputnik Technopolis

Resident of Technopolis Moscow SEZ since 2021

-  Pechatniki
-  756 workplaces
-  r-pharm.com

The Sputnik Technopolis factory, part of the R-Pharm Group of Companies, is one of the largest biotech complexes in Russia and Eastern Europe. Here, high-tech production of the first registered Russian vaccine against coronavirus infection Sputnik V (developed by The Gamaleya National Center of Epidemiology and Microbiology) was organized.

The pharmaceutical complex, which was built in record-breaking time during the first wave of the pandemic, has an area of about 20 thousand m², of which 70% are clean rooms. This is a full-cycle production: from cultivation of biological material to its subsequent packaging.

The production capacity of the plant is designed for 11 million doses of vaccine per month.

2021 accomplishments:

- The company invested RUB 9.2 billion in production
- Production output made RUB 4.7 billion



Sigma Polis

Resident of Technopolis Moscow SEZ since 2022

-  Pechatniki
-  28 workplaces
-  sigmalab.pro
-  RUB 69 million: the volume of investments announced

TechnoMove 2021 Award winner

TechnoTeam — for active participation in the events of Technopolis Moscow SEZ.

The company specializes in the development, prototyping and serial production of medical products in liquid form based on biopolymers.

Sigma Polis started working on the territory of Technopolis Moscow SEZ in 2021, and was registered as a resident at the beginning of 2022. The company's site is equipped with advanced equipment in accordance with international standards. All production is carried out in clean rooms, the area of which exceeds 400 m².

In 2021 specialists of Sigma Polis launched large volume production of test systems in a short period of time:

- More than 2 million tests for COVID-19
- 7 million test tubes for test transportation
- 4 million test preparation kits

Plans

On the basis of the existing facility for the production of medical test systems, the launch of production of medical products for the needs of surgery and arthrology is being prepared. The first products will enter the Russian market in 2023. It is planned that within a year the enterprise will produce 960 thousand units of solutions for auto plasma therapy and 240 thousand units of packaging for sterilization and storage of endoprostheses. The company plans to start producing joint fluid substitutes and synthetic vessels in 2024.

TZMOI

Resident of Technopolis Moscow SEZ since 2020

 Pechatniki

 64 workplaces

 phs-mt.ru

One of the leading Russian manufacturers of unique medical equipment for infection control: steam and low-temperature sterilizers, disinfection-and-washing machines, drying cabinets for instruments and anesthesiology, units for decontamination and processing of medical waste.

Over the past five years, production of infection control equipment has increased six-fold.

The staff of engineers increased by 20%, research-and-development / design-and-experimental activities are constantly being carried out.

The advantage of the company is one hundred percent localization of a range of equipment.

2021 accomplishments:

- The company invested RUB 20.7 million
- Production output made RUB 1,212 million

TechnoMove 2021 Award diploma

TechnoResult — for projects that increase the company's potential, profitability, and prospects

- The factory doubled (compared to 2020) production volumes of disinfection-and-washing machines, low-temperature sterilizers, medical waste disposers and other products, which were sent to more than 50 regions of the country.
- Thanks to the new turning and milling center the time of production of sophisticated parts was reduced from 40 to 10–15 minutes. The new equipment made it possible to achieve high precision of products without reducing the processing speed. The volume and nomenclature of manufactured components increased, as well as the level of automation and labor safety.

Amedart

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki

 81 workplaces

 amedart.ru



The company produces medicines from the list of vital and essential medicines: for the treatment of cancer and HIV infection, renal failure, as well as anticoagulants, chelators and immunosuppressants.

The company's production facilities include workshops of liquid and solid dosage forms, as well as a high-tech research and development center. Specialists of the company are actively developing new production technologies.

The capacity of the company will allow to produce up to 10 million packages of medicines annually. Some types of drugs are already produced and supplied to all regions of the country as part of public procurement by the Ministry of Health of the Russian Federation. The product portfolio will include more than 60 different medicines. The company is aimed at import substitution and increasing the share of domestic products in the Russian market.

2021 accomplishments:

- The company invested RUB 309.7 million
- Production output made RUB 202.9 million

Plans

In the next four years, the company plans to start production of 29 more items of pharmaceutical products.

TechnoMove 2021 Award winner

TekhnWorkshop — for the optimal modern solution of the production site organization

Gematech

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki

 31 workplaces

 gemamed.ru

Gematech (the production division of Gemamed) is a promising domestic manufacturer of innovative medical devices for stoma patients.

2021 accomplishments:

- The company invested RUB 750 million
- Facilities for the production of modern import-substituting stoma care products (Duoskin) were launched

One of the winners of the TechnoMove 2021 Award

TechnoPatriots — for contribution to solving the problems and meeting the needs of the social and industrial complex of Moscow

Plans

When the factory reaches its design capacity, which is 5.5 million units per year, the company will be able to produce 44 types of products in 2023.

The company aims to fully meet the needs of the capital's healthcare system in provision of stoma patients through domestic products, as well as to develop supplies to the regions of Russia.



Orthomoda

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki

 120 workplaces

 orthomoda.ru

The company is engaged in the development and production of orthopedic footwear and special (adaptive) clothing for people with disabilities. The modern factory featuring the latest equipment allows producing about 70 thousand units per year.

The uniqueness of production lies in the use of digital remote technologies, including 3D measurement of a patient's foot and modeling of the shoes. This opens up the possibility for people with various diseases to order shoes from anywhere in Russia.

The products are supplied to 40 regions of the country. Moscow Department of Labor and Social Protection is a special customer of orthopedic footwear manufactured by Orthomoda.

The company regularly participates in events involving socially vulnerable categories of population. About 20% of the company's own employees are people with disabilities.

2021 accomplishments:

- The company invested RUB 12 million (RUB 160 million since 2019)
- Production output made RUB 109 million

TechnoMove 2021 Award winner

TechnoDistance — for organizing efficient work in a remote format

Plans

Orthomoda plans to connect to the state system of provision of goods under an electronic certificate, which will allow providing tens of thousands of Muscovites with disabilities with modern rehabilitation devices.

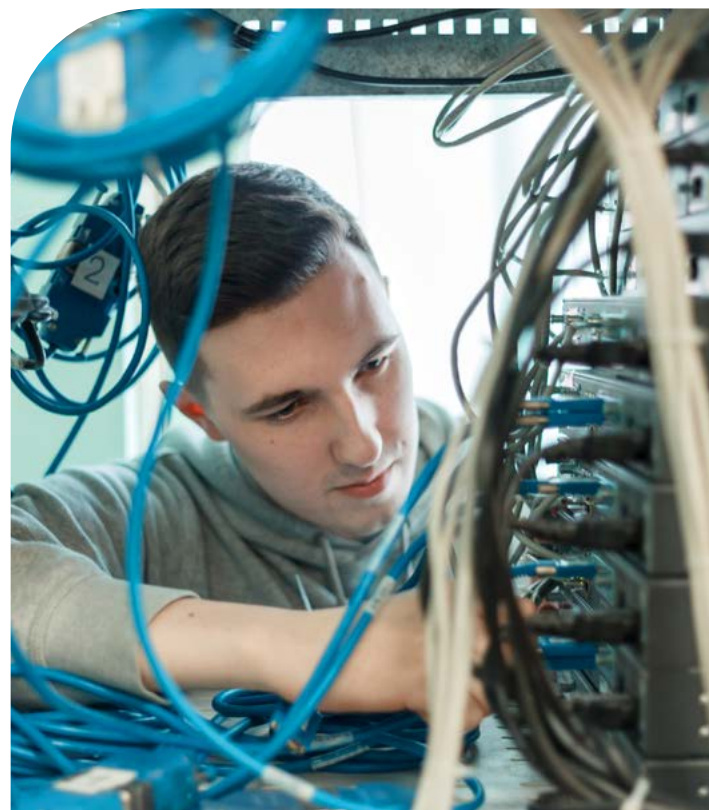
Promising developments of MedTech companies at the MIET site

Dozens of technological solutions, many of which relate to the medical field, were developed and tested on the basis of MIET in 2021.

Through the efforts of the scientists of MIET and the Zelenograd Innovative Technology Center, medical devices are developed and manufactured in the capital Special Economic Zone. In 2021, a non-invasive glucometer and a heart auxiliary circulation device passed engineering tests.

The laboratories of the Institute of Biomedical Systems (part of MIET) are conducting extensive research in the field of biomedicine.

The auxiliary circulation device for the left cardiac ventricle (AVK-N Sputnik) has been used in medicine since 2012. During this time, it has already undergone more than 50 implantations. Now the engineering tests of the second-generation device have been completed.



There is also a solution to help people who lost their sense of sight, but retain their visual memory and experience. It is based on neurostimulation of the cerebral cortex. A special device feeds image signals directly into the brain of a blind person and forms visual images.

A portable non-invasive glucose meter built into a fitness bracelet was developed for diabetic patients. In 2022 it should undergo clinical testing. The principle of operation is based on the use of a miniature infrared laser, which, helps to read blood glucose content by irradiating the skin. The use of the device will make it possible to analyze blood sugar continuously and make timely adjustments to diet and medication intake.

MICROELECTRONICS, ELECTRONIC EQUIPMENT AND OPTICS

Workplaces

46created by the
cluster residents
in 2021**4 952**total as at the end
of 2021Cluster residents'
investments**11.1**RUB billion
in 2021**24.5**RUB billion
total, over the
period of the SEZ
functioningCluster residents'
revenues**15.9**RUB billion
in 2021**90.4**RUB billion
total, over the
period of the SEZ
functioning

Microelectronics is the largest area of activity among the enterprises of the Technopolis Moscow SEZ. The cluster includes 33 companies specializing in the production of automated technical systems and their components, including semiconductor chips and microchips. The companies not only actively develop production, but also engage in scientific and implementation activities. Their own scientific units help develop unique products to meet the demand for domestic microelectronics in Moscow and Russia. The locations of the cluster enterprises are Alabushevo, Angstrom, Mikron, MIET, and Pechatniki.

Products manufactured
by the cluster residents**13.0**RUB billion
in 2021**78.0**RUB billion
total, over the period
of the SEZ functioning

**SERGEY
GAVRILOV,**
Doctor of Engineering
Sciences, Professor,
Vice-Rector for Research
of National Research
University of Electronic
Technology (MIET),
Member of the Scientific
and Technical Council of
Technopolis Moscow SEZ

“ Now Russian scientists in the field of microelectronics, electronic equipment and optics are primarily focused on the development of materials and technologies. Also in the last few months the tasks of improving the technological equipment became urgent. The development of computer-aided design systems for element base and microelectronic devices requires great attention. This is what we need most urgently at the moment. But globally, there are a lot of tasks. There must be trusted electronics everywhere. We must rush for that if we want to be a technologically independent country. Of course, it is difficult to work in these directions under the conditions of export restrictions, but if you have a great desire and appropriate financial support, it is possible to cope.

Mikron

Resident of Technopolis Moscow SEZ
since 2015

1,543 workplaces

mikron.ru

TechnoMove 2021 Award winner

TechnoInnovation — for specialized, innovative, original, and patent related projects in engineering, development, and inventions

Mikron is the largest manufacturer and exporter of microelectronics in Russia, the center of expertise and the technological leader of the domestic semiconductor industry. Mikron manufactures products of more than 700 types, including integrated circuits for secure data carriers, identification, payment and transport documents, power management and RFID tagging¹ for various sectors of the digital economy.

Every year the company launches more than 50 new products in batch production, and the product line of the factory has more than 200 different types of RFID tags. RFID products are already successfully used for various tasks, including inventory control, counterfeit control, process automation, warehouse and trade logistics, as well as to control and manage access to different facilities and storage units.

1.1RUB billion —
volume of investments**42.1**RUB billion —
revenue since becoming a SEZ resident

**GULNARA
KHASYANOVA,**
CEO of JSC Mikron

“ Microelectronics is the basis of all modern digital services. Microcircuits ensure operation of any devices from household appliances to sophisticated industrial equipment. The development of the industry requires not only the state support, but also the accompanying development of a dozen related industries: chemical and gas industry, machine tool and instrument making, and materials science. At the same time, microelectronics stimulates all other industries: manufacturing sector, transport, medicine, communications, and power. Microelectronics provides the foundation for the accelerated development of various industries and improved quality of life. Independent microelectronics reduces the risks of external influence on the country's economy and industry, ensuring its technological sovereignty.

¹ Radio Frequency Identification is a method of automatic identification of objects in which data stored in so-called transponders or RFID tags is read or written using radio signals.

The company's developments in 2021:

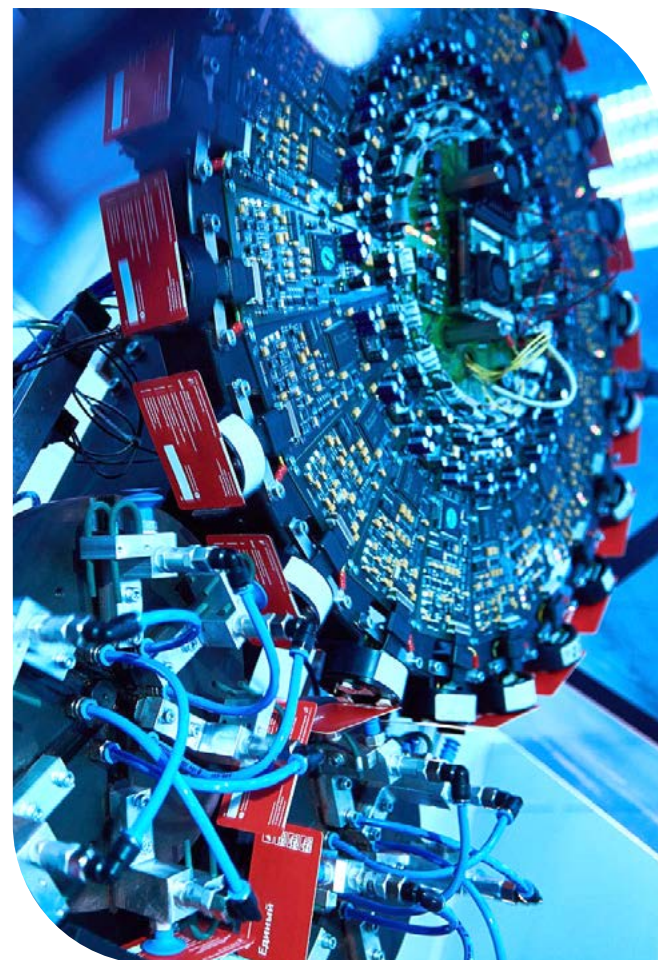
- **Microcontroller for industry and the Internet of Things.** Mikron released an experimental batch of the first fully domestic microcontroller based on open RISC-V architecture. It will reduce dependence on foreign component base and licenses for the manufacture of devices and appliances. The new microcontroller can be used for industrial automation and the Internet of Things, smart home, infrastructure and security systems, telemetry and monitoring, metering devices and other applications
- **Energy-efficient transistors for power electronics.** Components for power management in electronics were launched into mass production. These are Trench MOSFET transistors used in automotive and industrial electronics, generators, secondary power supplies, motor controllers, lighting equipment, telecommunications equipment and power industry. The new products have a high export potential. The company has already received the first orders from foreign companies



- **Radiofrequency tags for metal.** Mikron developed RFID tags for metal marking and put those into mass production. They are intended for use in the automation of operational and technological processes, logistics, infrastructure and other systems that require tagging of metal surfaces, equipment, parts, tools and other objects of identification. RFID tagging has a number of important advantages, including group and blind reading at a distance, durability and resistance to impacts, possibility of personalization, impossibility of counterfeiting. It makes this technology a convenient tool wherever it is necessary to digitize physical objects: from factories and farms to stadiums, libraries and shopping centers.

35.9

RUB billion —
production output



Research Institute of Molecular Electronics (NIIME)

Resident of Technopolis Moscow SEZ
since 2015

📍 Mikron

👤 583 workplaces

🌐 niime.ru

TechnoMove 2021 Award winner

Techno Profi stands for HR initiatives
and projects

Winner of the business award

Winner of the first independent
business award **Electronica** at the 23rd
International Exhibition of Electronic
Components, Modules and Components
ExpoElectronica 2021

JSC NIIME is the leading research center of the NIIME Group as part of the Element Group of Companies. It conducts research and development under federal programs of the Ministry of Industry and Trade of the Russian Federation, the Ministry of Science and Higher Education of the Russian Federation, Roscosmos State Space Corporation, as well as initiative activities at institute's own expense. The work is carried out with various Russian and foreign partners within the framework of programs for the development of the element base, for the manufacture of crystals of integrated circuits in the Foundry mode for partner companies, as well as for the development and mastering of series of integrated circuits and semiconductor devices.

324.6

RUB million — volume of investments

14.5

RUB billion —
revenue since becoming a SEZ resident



The company's developments in 2021:

- **Protection for the devices running the Internet of Things.** The Institute developed a new hardware and software system for cryptographic protection of information in Internet of Things devices. The solution is an entirely Russian development and will facilitate import substitution. The new hardware-software complex was named Zvezda (Star). The peculiarity of the development is that it fulfills the function of a virtual protected data channel between an end device and the application server. The solution uses a compact cryptographic industrial security protocol (CRISP), which was specially developed for the Internet of Things and standardized in Russia in 2019. This protocol is fault-tolerant, does not require a secure session to be set up in advance, and all CRISP messages are self-sufficient
- **Russia's first laboratory for the analysis of industrial materials.** NIIME opened a world-class physical and chemical analytical laboratory for research in the field of quality control of process media. There are only a few such laboratories in the world, in Europe there are no more than two or three. Research Institute has already developed more than 60 own methods, which are used for analysis of practically all media and chemical reagents. The results of the laboratory activities will be a great support for the domestic industry, since that would enable conducting complex research more rapidly, without sending the samples abroad.

NexTouch

181.5

RUB million —
volume of
investments

2.4

RUB billion —
revenue since
becoming
a SEZ resident

Resident of Technopolis Moscow SEZ since 2017

 Pechatniki

 60 workplaces

 nexttouch.ru

Russia's largest manufacturer and developer of interactive equipment, hardware and software complexes, as well as initiator of unique IT projects and innovative educational solutions, including those for inclusive education. NexTouch is the leader in the number of large touch screens produced and sold in Russia.

NexTouch is developing its own Center for Youth Innovation Creativity, which was awarded the status of STEM Center by INTEL. The company owns more than 10 patents in the field of nanotechnology and means of rehabilitation for people with disabilities. All of NexTouch's serial solutions are included in the Register of Russian Radioelectronic Products and the Register of Russian Industrial Products of the Russian Ministry of Industry and Trade.

In 2021, the company placed bonds on the Moscow Exchange, the pilot issue amounted to RUB 300 million. In total, the company plans to attract up to RUB 10 billion over ten years. NexTouch will use the funds to finance its priority projects in the area of interactive solutions.



**VLADIMIR
KRIKUSHENKO,**
CEO of NexTouch

|| *Going public is an important step for our company. We plan to have IPO in the next five years. Therefore it is important to get experience in working with exchange instruments.*

The company is growing steadily, the turnover for the first nine months of this year significantly exceeded the figures for the entire previous year. The revenue in the amount of RUB 10 billion will be an indicator of our readiness for the public offering of the company's shares.



Test-Contact

25.2

RUB million —
volume of
investments

254.4

RUB million —
revenue since
becoming a SEZ
resident

254.4

RUB million —
production output

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki

 24 workplaces

 test-contact.ru



Test-Contact is a developer and manufacturer of specialized test equipment for component base testing. The list of company's products is wide: contacting devices (items for connecting the tested chip to measuring equipment) and satellite carriers (items that protect the chips from damage during their testing and movement within the factory and transportation to the buyer). The company developed and produces over more than 1,000 types of various products.

The company's developments in 2021:

- **More than 200 new contact tooling for domestic designers and manufacturers of microelectronics.** Test-Contact launched production of contacting devices which are used in microchip test facilities. New contacting devices for microelectronics were developed in 2019 and passed all tests. The advantages of the products manufactured in the SEZ: operation in a wide temperature range (from -60 to +200 °C), repairability, high reliability and service life. It became possible due to the use of modern materials, connectors and production methods.

Neoros

282.7

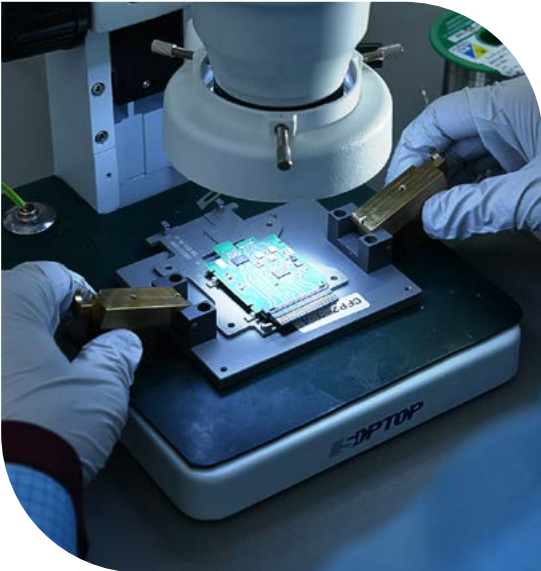
RUB million —
volume of
investments

747.2

RUB million —
revenue since
becoming a SEZ
resident

Resident of Technopolis Moscow SEZ since 2020

-  Pechatniki
-  26 workplaces
-  neoros.ru



Neoros develops and manufactures high-speed optical equipment demanded by telecom operators and data processing centers: various cables, transceivers, splitters, and multiplexers. The company closely cooperates with the Institute of General Physics of the Russian Academy of Sciences and the Department of Laser Physics of MEPhI on the creation of new optical technologies and the introduction of ready-made solutions.

In 2021 the enterprise significantly increased its capacity: in 2020 it could produce up to 15 thousand units per year, now it produces more than 60 thousand units per year.

The volume of production (high-speed optoelectronic solutions for telecom operators, data centers, transport networks and IT-integrators) increased fourfold, up to RUB 747 million.

176.8

RUB million —
volume of
investments

SPC ELVEES

Resident of Technopolis Moscow SEZ since 2020

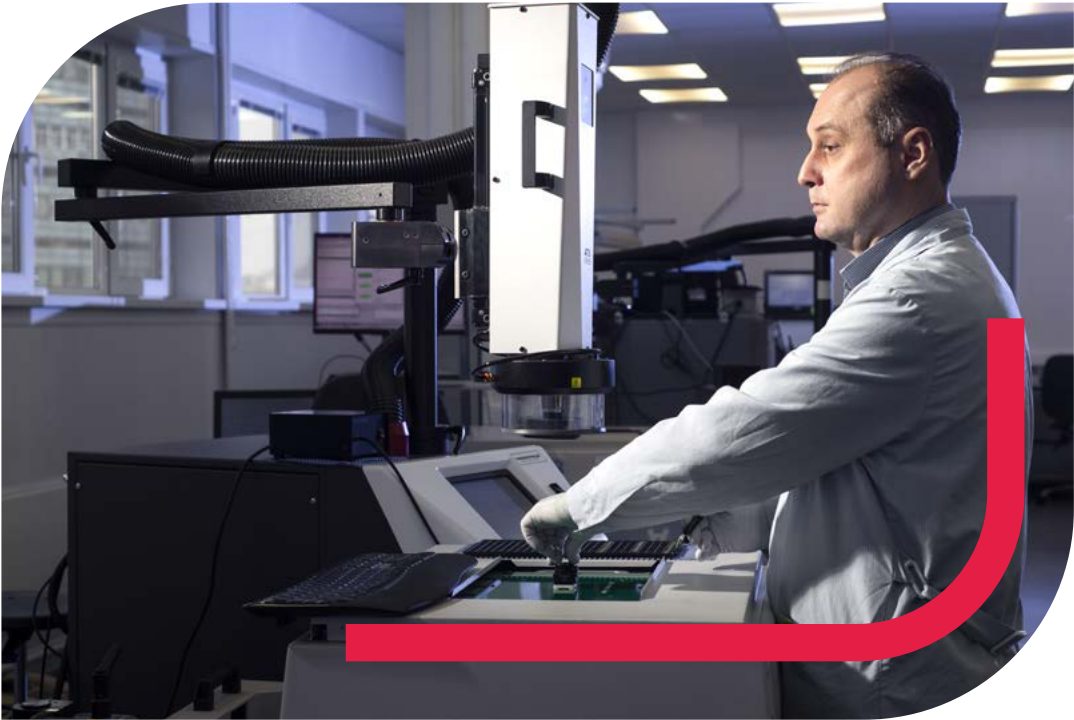
-  Alabushevo
-  650 workplaces
-  elvees.ru

TechnoMove 2021 Award winner

TechnoInnovation — for specialized, innovative, original, and patent related projects in engineering, development, and inventions

One of the leading chip design centers in Russia. The company specializes in the development of microcircuits for communication systems and telecommunication equipment. The staff of SPC ELVIS consists of more than 650 highly qualified specialists, including 6 doctors of technical sciences and 25 candidates of sciences. The company employs more than 450 developers with competencies in the areas of processor architectures, radar signal processing, and integrated security systems.

- The company's developments in 2021:
- **First Russian-made processor module Scythian.** The first Russian-made chip, a new embedded processor module (a device that provides for synchronization and correct operation of systems inside a device, such as a tablet or robotics) for tablets, went into production. Currently, it is the only processor on which a tablet for government agencies can be developed, taking into account the requirements of information security. It allows to replace processor modules, which are made on the basis of foreign chips, in the products of the domestic industry.



NANOTECHNOLOGIES AND ADVANCED MATERIALS

228

workplaces
created by
the cluster residents
in total as at the end
of 2021

Cluster residents'
investments

43

RUB million
in 2021

989

RUB million
total, over the
period of the SEZ
functioning

Cluster residents'
revenues

0.9

RUB billion
in 2021

3.2

RUB billion
total, over the
period of the SEZ
functioning

Products
manufactured by
the cluster residents

1.0

RUB billion in 2021

3.4

RUB billion
total, over the
period of the SEZ
functioning



**ANDREY
PETROV,**
Candidate of Chemical Sciences, Senior
Researcher with the Directorate for
Research and Technology Programs,
Member of the Scientific and Technical
Council of Technopolis Moscow SEZ

" In the field of new materials Russia has a high level and priority achievements in some areas. Using modern advances in mathematics and information technology for the end-to-end process of designing, developing, testing and applying new materials and substances and developing materials for and using additive technologies will provide the most significant changes for the industry of the future through creating the materials and designs having the parameters that currently cannot be even predicted.

Unfortunately, at the present time, with international sanctions and closure of high-tech markets, our country finds itself in a situation of extreme restrictions. It is necessary to analyze the key critical needs of the industry, which require solving the scientific, engineering and technological problems. It will be impossible to solve these problems without the use of modern approaches to knowledge engineering. Research in the field of Nanotechnologies and Advanced Materials will play a key role in the development of engineering and technology in Russia.

Nanotechnology Center of Composites

Resident of Technopolis Moscow SEZ
since 2018

Pechatniki

178 workplaces

nccrussia.com

TechnoMove 2021 Award winner

TechnoInnovation — for specialized, innovative, original, and patent related projects in engineering, development, and inventions

Nanotechnology Center of Composites LLC (NCC) is the production and engineering center solving the problems in the sphere of composite materials for various purposes. NCC manufactures products for different industry sectors: energy, construction, shipbuilding, automotive, telecommunication, and manufacture of consumer goods.

NCC is the largest manufacturer of the CarbonWrap® External Reinforcement System (ERS). Since 1987, CarbonWrap® has been used worldwide in the repair and reinforcement of construction structures of industrial and residential buildings and facilities, nuclear and hydroelectric power facilities, transport infrastructure, pipelines and reservoirs.

NCC is the leading exporter of Technopolis Moscow SEZ with the volume of deliveries in 2021 amounting to RUB 287 million.

The company's developments in 2021:

- Manufacture and delivery of more than 20 km of composite railing fences and drainage gutters for the Central Ring Road-1 and the Central Ring Road-3

44.6

RUB million —
volume of investments

2.9

RUB billion — revenue since becoming
a SEZ resident

2.9

RUB billion —
production output



- Manufacture and delivery of CarbonWrap® ERS for reconstruction of JSC Kazazot factory (Republic of Kazakhstan)
- Manufacture and delivery of fences for gas distribution stations for the facilities in Tyumen Region
- Manufacture and delivery of cases for protection of gas pipes, for the needs of JSC Ekaterinburggas
- Manufacture and delivery of composite railing barriers for the Presidential Bridge, Ulyanovsk. The bridge is one of the five longest bridges in Russia, its length is 5,825 m. Participation in the construction of one of the longest bridges in Russia adds to the list of the company's achievements, which includes hundreds of projects of railings all over the country, from Yuzhno-Sakhalinsk to Kaliningrad



**EUGENY
RAFAILOV,**
Head of the Sales
Department, Nanotechnology
Center of Composites

" The Presidential Bridge is the most important infrastructure project for Ulyanovsk, and a number of innovative technologies were used in its implementation. Composite guardrails are used on bridges and overpasses as a substitute for metal ones. They have low weight, corrosion resistance, durability and ease of replacement of structural elements, while there is virtually no maintenance costs during operation.

886.2

RUB million —
volume of
investments

183.1

RUB million —
revenue since
becoming
a SEZ resident

406.9

RUB million —
production output

Ecoplast

Resident of Technopolis Moscow SEZ since 2019

-  Pechatniki
-  46 workplaces
-  ecopoliscorp.com

TechnoMove 2021 Award winner

TechnoPlace — for the creation of new workplaces
and attraction of the personnel

Ecoplast is part of a complex of factories for the environmentally friendly processing of out-of-order electronic and electrical equipment. The company is managed by JSC ECOPOLIS Corporation. The Ecoplast factory production lines, which are equipped with modern European equipment, allow to process up to 25 thousand tons of body plastic into high quality ABS, PS, and PP secondary pellets annually. The facility does not have a negative impact on the city's environment due to a closed water supply system and modern gas-purifying equipment: they exclude discharges into the city's sewage system and polluting emissions into the atmosphere.

The company's developments in 2021:

- Tile from the company's production waste.**
Ecoplast launched a line for the manufacture of finished products from polymer waste, which are used in the sphere of housing and communal services. The company set up production of tiles to protect buried electrical cables. The new production of polymer-pressed products (PPP) is 100% waste-free. Raw materials for it are the company's production waste. Finished products that do not pass the quality control are also crushed and recycled. PPP is an alternative to bricks for electrical cable laying, which substantially reduces the logistics costs and increases the productivity of cable layers. Besides, the company produced a pilot batch of drainage gutters for low-rise and multi-storey buildings using this zero-waste technology.



ALEXEY
KOROLYOV,
CEO of LLC Ecoplast

The economic model of the closed cycle, from extraction of used plastics from the recycled equipment to the manufacture of finished products was implemented at the processing plant of Ecopolis Corporation. This initiative allowed us to produce marketable products from those polymer fractions, which were previously not used for this purpose.



56.6

RUB million —
volume of
investments

107.6

RUB million —
revenue since
becoming
a SEZ resident

107.6

RUB million —
production output

SPA Composit

Resident of Technopolis Moscow SEZ since 2020

- Pechatniki
- 4 workplaces
- ru.carbon.pro

TechnoMove 2021 Award winner

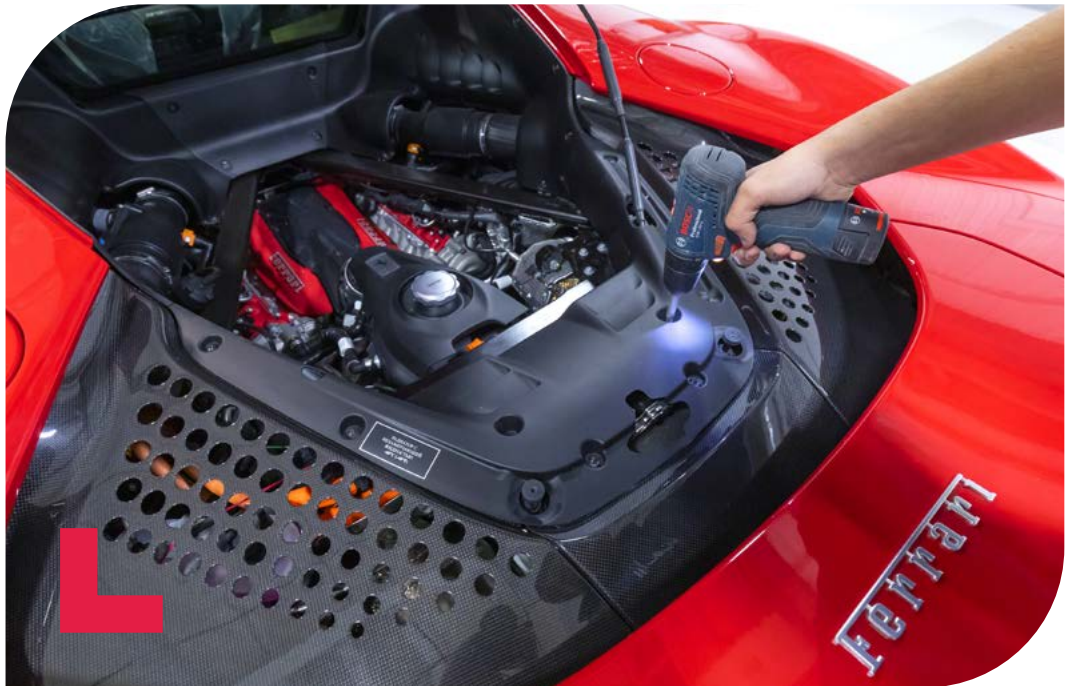
TechnoInnovation — for specialized, innovative, original, and patent related projects in engineering, development, and inventions

Scientific & Production Association (SPA) Composit is a high-tech engineering company providing services for the design, construction, prototyping, testing and manufacturing of small-scale and large-scale products from modern composite materials using advanced technologies for the automotive, aerospace, marine and robotics industries, and for manufacturing of unmanned aerial vehicles as well.

The company has the capabilities to produce high-quality composite products, high-precision milling, 3D scanning of metrological class of any type of surface with an accuracy up to 0.025 mm.

The company's developments in 2021:

- **Composite parts for Ferrari.** The company launched the production of a line of composite parts for premium and luxury segment cars. The new products represent carbon fiber components of exterior and interior for Ferrari, Lamborghini, Mercedes-Benz models and will complete the company's portfolio comprising more than 2,000 composite parts. The availability of the advanced technologies allows the resident to manufacture the products on the level the large automobile concerns provide.



**MIKHAIL
FILIMONOV,**
CEO of SPA Composit

The new production is addressed to the official dealers of the world automobile concerns. As the result of the project the new cars are equipped with the Russian product that means the localization of the production and import substitution. Consumers do not need to order such components from foreign manufacturers. At the Pechatniki site they are produced using the same technology and with the same level of quality.



HIGH-TECH PRODUCTIONS

Workplaces

132

created by the cluster residents in 2021

457

total as at the end of 2021

Cluster residents' investments

653

RUB million in 2021

1.1

RUB billion total, over the period of the SEZ functioning

Cluster residents' revenues

1.8

RUB billion in 2021

3.9

RUB billion total, over the period of the SEZ functioning

Products manufactured by the cluster residents

0.9

RUB billion in 2021

2.1

RUB billion total, over the period of the SEZ functioning

The cluster brings together 15 companies specializing in the manufacture of science-intensive products that require considerable expenses on research and development. The residents of the high-tech cluster of the SEZ are very different in their areas of specialization: from building engineering and technological systems to designing electrical and hybrid systems for commercial vehicles and public transport, from 3D printing to developing search-and-inspection and X-ray equipment.

The locations of the cluster companies are Pechatniki and Alabushevo.



ANDREY SMIRNOV,
Deputy General Director,
Low and Medium
Voltage Solutions,
PJSC Evropeyskaya
Elektrotehnika



ALEXANDER LADNY,
Candidate of Economic
Sciences, Advisor to the
Director — Chief Designer of
the State Scientific Center of
the Russian Federation Central
Research and Development
Institute of Robotics and
Technical Cybernetics,
member of the STC of
Technopolis Moscow SEZ

Manufacturers of high-tech products that develop production inside the territory of Russia were able to overcome the consequences of coronavirus pandemic-induced restrictions and stabilize production output. The market is now in equilibrium between supply and demand. The main problems of industry development at the moment are as follows:

- global stockout of semiconductor components, which leads to a manyfold increase in the delivery time of switching equipment with data transfer, controller equipment, and variable speed drives
- Congestion of global and regional logistics chains, transportation delays and failure of delivery deadlines

Despite this, Russian companies in the high-tech manufacturing sector managed to achieve growth against 2020, as well as to expand the use of digital solutions.

The sanctions imposed against Russia to a greater or lesser extent affected almost all sectors of the economy of our country. At the same time, the greatest negative effect of the sanctions regime is felt in such areas in which the Russian Federation lacks well-established production of key components of import-substituting and knowledge-intensive products. Creation of new materials, implementation of adaptive software, development of new energy sources — all this will allow to create new and more advanced robotic facilities in the near future.

Under the current conditions of international sanctions and closed markets of high-tech products, Russia has all opportunities to ensure development in the areas that are important for the technological independence of our country (including robotics), and in general to improve the quality of life of the population, relying on the existing potential and created scientific groundwork. Only the concentration of common efforts of the state, science and business will make it possible to virtually realize such opportunities.

131.3

RUB million —
volume of
investments

1.4

RUB billion —
revenue since
becoming
a SEZ resident

0.5

RUB billion —
production output

Scientific Entertainment

Resident of Technopolis Moscow SEZ since 2019

-  Pechatniki
-  132 workplaces
-  nau-ra.ru

Scientific Entertainment develops and produces methodological materials and digital learning equipment that help implement the objectives of the Education national project in 2018–2024 and the Federal State Educational Standards of the new generation.

The company has 35 patents for developments. The company's digital equipment is used by laboratories in chemistry and physics of leading Russian universities: MEPhI, MIPT, MVTU, MSU, MIIT, MEI, LETI, MGIU. The company's products, which can already be seen in educational institutions in Russia, include robotic complexes ('Weather Station', 'Smart Greenhouse', etc.), laboratory installations for studying physical phenomena ('Study of the isothermal process', 'Study of the Earth's magnetic field' and many others).

The company's developments in 2021:

- **Environmental Patrol for Russian schools.** The company supplied about 1 thousand digital laboratories of own design for the federal public education project, Environmental Patrol. Digital laboratories are kits for educational environmental monitoring by instrumental methods. They are compact and equipped with special sensors optimized for use by teenagers. Environmental Patrol is a scientific and educational public-educational project developed by the order of the President to involve young people in solving environmental problems. Schoolchildren-activists use Russian high-tech equipment to conduct research and identify environmental violations.



202.5

RUB million —
volume of
investments

20.4

RUB million —
revenue since
becoming
a SEZ resident

11.9

RUB million —
production output



RT-Bartholet

Resident of Technopolis Moscow SEZ since 2021

-  Pechatniki
-  24 workplaces
-  rt-bartholet.ru

TechnoMove 2021 Award winner

Techno Profi stands for HR initiatives and projects

RT-Bartholet carries out activities in the design and construction of ropeways, equipment of amusement parks and passenger transport.

A feature of the technology, which is specially developed for the urban environment, is the possibility of autonomous movement of a cab being driven by an electric motor. This opens up new opportunities for the carriage of passengers in conditions of dense urban development.

Key production and technological operations are localized at the factory: machining on computer numerical control (CNC) machines, welding, bending, plasma cutting, and final assembly. The company uses the leading-edge technologies and equipment.

The ropeways created at the enterprise are oriented to the Russian market, as well as to export, for the company's international projects.

The company's developments in 2021:

- **Components for the aerial lift over the Khimki Reservoir.** Within the concession agreement between the Moscow government and the Swiss company, Bartholet Maschinenbau AG, the Pechatniki site localized innovative production of ropeway transport systems. The enterprise set up the production of components for the construction of the ropeway over the Khimki Reservoir between Skhodnenskaya and Rechnoy Vokzal metro stations in Moscow.

Plans

In the future, the output will be oriented to the Russian market and for export. The company plans to reach 51% localization of its production in Russia.

187.9RUB million —
volume of
investments**2.2**RUB billion —
revenue since
becoming
a SEZ resident**1.5**RUB billion —
production output

Diagnostics-M

Resident of Technopolis Moscow SEZ since 2019

Alabushevo/Pechatniki

144 workplaces

tsnk.ru

TechnoMove 2021 Award winner**TechnoMedia — for bright and creative PR-projects
to promote own brand**

The main activity of the company is the development, creation, production and supply of innovative search/inspection and X-ray equipment used by public services and private companies specializing in ensuring the safety of people, institutions, and property.

Diagnostics-M actively invests in the creation of innovations, patents own unique developments and launches them in series. In total, the company has 10 patents in its portfolio.

The company's developments in 2021:

- **X-ray treatment of blood.** Diagnostics-M patented a device for X-ray blood irradiation. The X-ray blood irradiation device eliminates the biological activity of donor blood, reducing the risk of rejection by patient's body. This unit will be useful at blood transfusion stations, in the treatment of blood pathologies, including oncology, and during bone marrow transplants. The first test samples have already been released
- **Control of microelectronic products.** Preparations are underway to commence industrial production of a tester for X-ray control of microelectronics products. This is one of the company's latest intellectual property; the patent was obtained at the end of 2020. The new device is capable of controlling the assembly quality of circuit board elements. Similar devices have not been produced in Russia before.



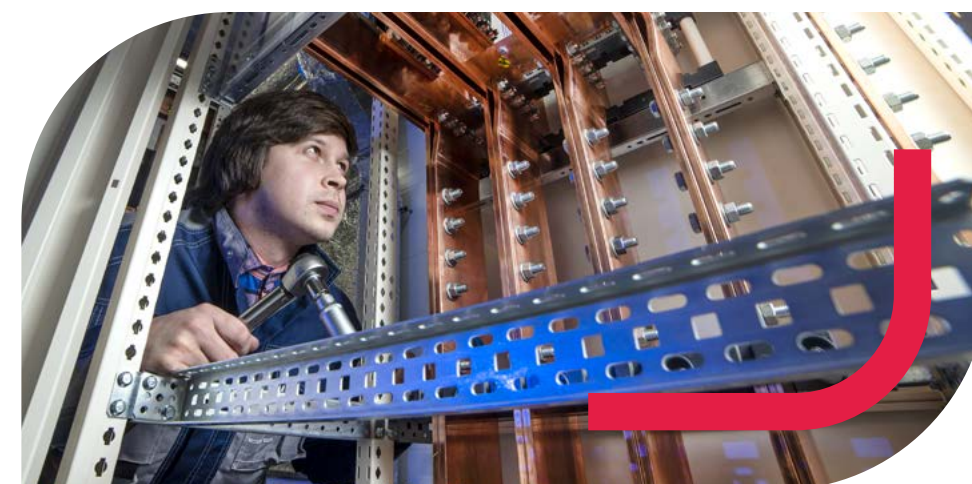
European Electrical Engineering

Resident of Technopolis Moscow SEZ since 2020

Pechatniki

60 workplaces

euroetpao.ru

TechnoMove 2021 Award diploma**TekhnoWorkshop — for the optimal modern solution
of the production site organization****51.0**RUB million —
volume of
investments**155.3**RUB million —
revenue since
becoming
a SEZ resident**70**RUB million —
production output

The company has been operating in the electrical engineering market since 2004 and provides comprehensive services for the creation of energy and electricity supply systems, electric lighting and low-current systems at facilities of any purpose. The developers have a range of technical know-how, including cable holders for deep shafts, which are already used commercially. Among the latest developments is an innovative system for attaching lighting fixtures to glass facades of buildings. The company established the production of switchboard equipment of any complexity (up to 6,300 A) and non-standard lighting systems. During its work, the company has accumulated a serious pool of innovative solutions ready for replication, their effectiveness and benefits have already been proven in practice.

The company's developments in 2021:

- **lighting in the capital.** European Electrical Engineering is implementing more than 20 major power supply projects in Moscow, and another 30 are under negotiation and preparation. They include office buildings for the headquarters of Russia's largest financial and oil companies, data centers for the financial sector, transport infrastructure, housing & public utilities and manufacturing establishments;
- **Engineering systems for the Grand Tower.** The company manufactures engineering systems for the skyscraper in Moscow City — Grand Tower. The company delivered switchboards and incoming switchgear to the site.

Additive Engineering

Resident of Technopolis Moscow SEZ since 2020

 Pechatniki

 14 workplaces

 siusystem.ru

TechnoMove 2021 Award winner

TechnoEnvironment — for establishing communications and building relationships within the SEZ

Additive Engineering is a center of innovation, a continuous production facility that concentrates the world's leading technologies for additive manufacturing and houses more than 15 industrial-scale 3D-printers.

It is part of the SIU System Group of Companies.

Additive Engineering provides a full range of 3D services, including 3D modeling, 3D scanning, reverse engineering, downstream 3D printing and output to small and medium series, comprehensive consulting and engineering. The company manufactures products from any materials, including metals, polymers, plastics, wax, ceramics, polyamide/nylon, according to specifications. Products made with the use of 3D printing are widely demanded in Moscow industry and medicine; they are actively used by builders and representatives of other industries. During the pandemic, the company adapted 3D printing



for the production of protective reusable respirators and ventilator valves. 3D printing allows for precision in the production of 1 mm gears and large items larger than 1.5 m, as well as ensuring repeatability and speeding up high-precision orders for engineering applications, which is an important factor for industry.

The company's developments in 2021:

- **250,000 blanks for aligners.** The company has 3D-printed 250,000 models from photopolymers for the production of aligners for occlusal rehabilitation. Aligners are used in modern orthodontics. Their blanks are unique because each jaw shape has peculiarities. The task of their production is greatly simplified by 3D-printing, which allows making products of complex geometry, saving time and materials, and reducing the number of components. In 2021, the company expanded its equipment fleet, which allowed more than doubling of the manufacture of these products.
- In 2022 it is planned to continue expanding production.



114.2

RUB million — volume of investments

115.3

RUB million — revenue since becoming a SEZ resident

115.3

RUB million — production output



INFORMATION AND COMMUNICATION TECHNOLOGIES

Workplaces
363
created by the cluster residents in 2021

1,006
total as at the end of 2021

Cluster residents' investments
1.0
RUB billion in 2021

11.6
RUB billion total, over the period of the SEZ functioning

Cluster residents' revenues
6.9
RUB billion in 2021

21.4
RUB billion total, over the period of the SEZ functioning

Products manufactured by the cluster residents
5.2
RUB billion in 2021

19.6
RUB billion total, over the period of the SEZ functioning

The cluster is made up of 14 companies that are developing the production of computer hardware and information (including large data) storage and processing devices.

Cluster sites: Alabushevo, MIET, Pechatniki.



ALEXEI PEREVERZEV,
Doctor of Engineering Sciences, Associate Professor,
Vice-Rector for Innovative Development of National
Research University of Electronic Technology (MIET),
Member of the Scientific and Technical Council of
Technopolis Moscow SEZ

Over the last 10 years, the main drivers of multidirectional development of the industry were global trends such as process digitalization and automation, higher intellectuality in data processing, mass spreading of electric transport. Information technology, computer hardware and power electronics took an even larger niche in mass application. It is safe to say that in the next 10 years these trends will continue, and the industry will face new scientific and technical challenges both to improve the efficiency of production processes and to increase the level of comfort in everyday life.

Many countries, such as the U.S., China, the European Union and others, attempt to ensure strategic technological independence, and thus seek to localize the full production cycle of key components on their territory. Russia is no exception here. It is necessary to pay serious attention to the development of electronic engineering, providing it with the necessary materials, and creating new localized technological chains, thus developing the More than Moore¹ principle, as well as Beyond Moore². At the same time, it is also necessary to develop scientific schools involved in the design of traditional electronics products, including according to advanced topological standards, so the task of strengthening research in architectural and schematic foundations for the creation of computer and telecommunications equipment and modeling tools is still important.

¹ More than Moore is a reference to Moore's law of doubling the number of transistors on a chip every two years.
² This implies the use of nanotechnology and new materials.

ANCUD

Resident of Technopolis Moscow SEZ since 2014

- MIET
- 131 workplaces
- ancud.ru



1.2
RUB billion —
volume of
investments

2.1
RUB billion —
revenue since
becoming
a SEZ resident

2.1
RUB billion —
production output

ANCUD has been successfully working in the field of information security for more than 30 years and is currently one of the leading developers in this sector. The company's core business is the development, production and supply of hardware and software for cryptographic protection of information, electronic digital signature tools, protection against unauthorized access and access control to computer resources, means for building secure data transmission networks and ensuring the security of wireless telecommunications.

The company's developments in 2021:

- hardware-software trusted computer loading module (HSTLM).** KRIPTON-ZAMOK/UM2 HSTLM received the relevant certificates of the Federal Security Service of the Russian Federation, which will be valid until May 25, 2026. The product complies with requirements of the Federal Security Service of Russia for hardware and software modules for trusted loading of class 1A / 1B computers and can be used for protection against unauthorized access to information containing (not containing) state secrets. The HSTLM is designed in two versions: it can be used with a domestic smart card or with an iButton data carrier. KRIPTON-ZAMOK/UM2 is a development of ANCUD company. This device is designed to limit access of the system users to the resources of computer equipment having such device installed. Currently the product is being modified to work with the domestic information carrier Rutoken, for the use in the systems that do not process the information containing the state secret.

462.3RUB million —
volume of
investments**1.7**RUB billion —
revenue since
becoming a SEZ
resident

Biforcom Tech

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki 79 workplaces b4com.tech

TechnoMove 2021 Award winner

TechnoResult — for projects that increase the company's potential, profitability, and prospects

The main activities of the company are R&D in the field of IT, telecommunications and radio communications; software development and equipment design; equipment manufacturing, engineering, equipment sales and service. Biforcom Tech manufactures routers, cloud software, switches and personal computers.

In 2021, the company placed three-year bonds worth a total of RUB 250 million on the Moscow Exchange. Demand for the securities exceeded their supply. The funds raised from the bonded loan will be invested by Biforcom Tech in the development of its production — the purchase of equipment and new developments, including software.

Plans

Biforcom Tech will triple the area of its factory in Pechatniki. The 2.4 thousand m² extension will be added to the initial premises. The investments in the expansion of production will exceed RUB 200 million. The opening of the factory after reconstruction will take place in Q4 2022.



Photoexpert

Resident of Technopolis Moscow SEZ since 2019

 Pechatniki 237 workplaces netprint.ru

Winner of the Corporate Award of Technopolis Moscow SEZ in TechnoMove 2021 innovative business development

TechnoResponse — for increasing media activity, openness, and prompt response to initiatives**425.0**RUB million —
volume of
investments**1.9**RUB billion —
revenue since
becoming
a SEZ resident**390.1**RUB million —
production output

The company provides customers with a full range of services in the field of professional digital printing, while specializing in photo printing and production of photo albums, books, souvenirs of individual design. There is a printing complex on the territory of SEZ with more than 80 units of equipment. Own IT-system is implemented for order processing and management of the printing process. The company manufactures more than 100 different products and sells them throughout Russia.

The company's developments in 2021:

- **3 million photo albums for graduates.** The company printed more than 3 million photo albums for graduates of kindergartens and schools in different regions of Russia. The increased output was enabled by the launch of a new automated printing complex on the SEZ site. The modern printing house located on an area of about 5 thousand m² is equipped with its own IT-system for processing orders and managing the printing process. With the help of online services and applications for smartphones, users can create their own printing layouts and promptly receive finished products in 15 thousand distribution points organized all over Russia.
- **Production capacity enabled** the company to carry out such large-scale campaigns as the Magic Night of Photos; as a result, printing orders were placed for more than 2 million photos. All those orders were fulfilled in full within 24 hours and were promptly delivered to customers.

Digital Solutions Workshop

Resident of Technopolis Moscow SEZ since 2020

-  Pechatniki
-  44 workplaces
-  mastercr.ru

Digital Solutions Workshop (DSW) is a Russian IT developer. It helps companies automate business processes through off-the-shelf or customized solutions. Any DSW product can be easily modified to meet the tasks of the client by using open source technologies. The company leads the full cycle of software development — from requirements analysis and preparation of the terms of reference to implementation of a ready product and technical support. One of the focus areas is process automation for power grid, design and construction organizations. Software developed by DSW is used by FGC UES, Gauf Rus, and Energomost.

The company's developments in 2021:

- **EASY TASK service for project and task management.**

Its main advantage is simplicity. The service helps to:

- Manage a large number of projects
- Observe deadlines
- Analyze the effectiveness of the team
- Delegate tasks
- Plan own workload and that of executives
- Share files and comments

Full functionality is available in the web version, mobile application, and Telegram bot. The intuitive and minimalistic interface allows one to master the service in a day.

EASY TASK solves problems in a wide range of areas: from power industry to a small bakery. The first version has already been tested in energy companies.



12.3

RUB million —
volume of
investments

89.8

RUB million —
revenue since
becoming a SEZ
resident

28.8

RUB million —
production output

S-Terra CSP

Resident of Technopolis Moscow SEZ since 2021

-  Alabushevo
-  126 workplaces
-  s-terra.ru



93.9

RUB million —
volume of
investments

188.2

RUB million —
revenue since
becoming a SEZ
resident

S-Terra CSP develops and manufactures network information security tools based on IPsec VPN technology. The company's solutions are used to protect inter-network interactions, organize secure wireless and multiservice networks, and secure the work of remote and mobile users. The company's products certified by the Federal Service for Technical and Export Control of Russia and the Federal Security Service of Russia use modern Russian cryptographic GOST algorithms and are included in the Unified Register of Russian Computer Programs and Databases (the Register of Russian Software). The quality management system of S-Terra CSP is certified according to the requirements of GOST R ISO 9001-2015 (ISO 9001:2015).

ENERGY EFFICIENT TECHNOLOGIES

Workplaces

41created by the
cluster residents
in 2021**243**total as at the end
of 2021Cluster residents'
investments**454.4**

RUB million in 2021

715.5RUB million total,
over the period of the
SEZ functioningCluster residents'
revenues**1.6**

RUB billion in 2021

2.8RUB billion
total, over the
period of the SEZ
functioningProducts
manufactured by the
cluster residents**811.7**

RUB million in 2021

1.6RUB billion total,
over the period of the
SEZ functioning

The cluster's four enterprises specialize in the development of technologies aimed at reducing energy consumption and rationally using resources.

The sites of the cluster companies: Alabushevo and Pechatniki.



ALEXANDER KLIMENKO,
Doctor of Engineering Sciences, Professor,
Academician of the RAS, the leading expert
of the Center of Competences of National
University of Science and Technology MISIS,
Chairman of the STC of Technopolis Moscow SEZ

Energy efficiency is rather an ideology which should be followed at all stages of energy cycles: generation, transmission, and utilization, in all spheres of economic activity. Actually, it should be implemented through technologies that allow obtaining the required product with minimal energy consumption.

The main problem is that the careful and rational use of energy resources has become a prerequisite that is to be respected always and in everything. Each industry has its own ways of improving energy efficiency. But such a tool as digitalization used to build energy flows accounting and management systems, as well as system for conversion of one type of energy into another, is universal and yields the effect everywhere.

Unfortunately, in terms of energy efficiency, our country lags far behind best practices. In terms of energy intensity of the gross domestic product, Russia is almost three times higher than the global average.

We have to concentrate on implementing those decent energy saving plans and programs which were adopted over the last twenty years, but have never been fully implemented.

Electroinvest Group

Resident of Technopolis Moscow SEZ since 2017

Alabushevo

168 workplaces

elin-gk.ru



Elektroinvest Group specializes in the development and serial production of modular-design functional devices for special-purpose power supply systems. One of the directions in the development and production of such systems is the use of radio components in metal-ceramic and metal-glass housings.

The company's developments in 2021:

- Components for the space and military technology**

Electroinvest Group introduced a new line of military and space power supplies. These are radiation resistant secondary power supplies that ensure reliable operation of electronics. The products were specially developed for import substitution.



YEMELYAN POLYANSKY,
CEO,
Electroinvest Group

Participation in Russian space programs required expansion and modernization of production. Until now, production has been functioning almost on the verge of its capabilities to ensure unconditional fulfillment of deliveries. However modernization of all production units and completion of the last commissioning stage for the launch of the new production area, the so-called clean zone, will allow to clench this matter in full. Due to the work performed the number of high-tech workplaces was doubled.

190.1RUB million —
volume of investments**1.2**RUB billion —
revenue since becoming a SEZ resident**837.2**RUB million —
production output

Sovelmash Design Bureau

464.52

RUB million —
volume of
investments

Resident of Technopolis Moscow SEZ since 2019

Alabushevo

sovelmash.ru

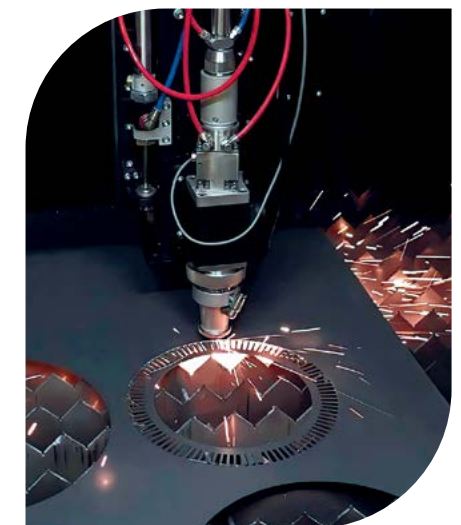
Sovelmash develops and manufactures energy efficient asynchronous electric motors with the unique patented technology of combined windings Slavyanka as well as innovative electric machines featuring high potential for customization.



The company's developments in 2021:

- Improved built-in motor for household appliances and hand-held power tools, which operates from the mains and with a quick stop function, which prevents accidents. The company's engineers developed and patented a new control system that will allow the improved motor to be installed in household appliances and tools.

The newest built-in electric motor uses technology that combines several types of wire winding at once — Slavyanka. This motor consumes up to 40% less electricity, and works 1.5-2 times quieter than counterparts, such as collector motors, which are noisy, fail in a short time, etc. The new type of motor is suitable for hand-held power tools and household appliances such as vacuum cleaners, meat grinders, coffee grinders, food processors, refrigerators and dishwashers.



Plans

The resident will develop the asynchronous electric motor line at the Alabushevo site, where it is building a design engineering bureau.

#04

84

Privileges and preferences

88

Services & facilities

94

Internal cooperation of residents

OPPORTUNITIES FOR RESIDENTS

96

Public and private
partnership

98

Events of the year



PRIVILEGES AND PREFERENCES

The volume of
privileges granted
to SEZ residents
in 2021

830
RUB million
amount of tax
abatements
for the duties
to be passed
to the budget of
a constituent entity
of the Russian
Federation and
local budget

143
RUB million
volume of privileges
on customs duties

60
RUB million
amount of tax
abatements for the
duties to be passed
to the federal
budget

14
RUB million
volume of
privileges on
insurance
premiums

The status of the Special Economic Zone resident gives Technopolis Moscow SEZ partners a whole range of preferences: from tax abatements and opportunities to use a well-developed infrastructure to the atmosphere of a business booster, and cooperation with other residents as well.

One of the important advantages for residents is preferential taxation. Since the creation of the Moscow SEZ, residents have saved almost RUB 4 billion on tax payments. This allows companies to reduce the cost of production and obtain competitive advantages, as well as to invest the saved funds in the development of production.

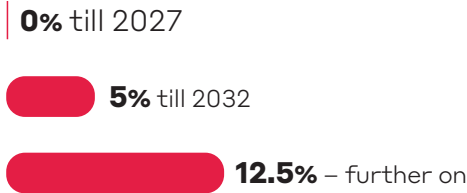
Privileges enjoyed by SEZ residents

0%
VAT on import of goods
(import duty)

Imported goods and equipment are exempt from customs duties and taxes.

2%
Profit tax paid to the federal
budget

Payments to the regional budget
are:



0%
rate of property tax for
10 years

Residents of Technopolis Moscow SEZ are exempt from property tax for 10 years.

0%
rate of land tax for 10 years

Land tax is not levied for 10 years from the moment the title to each land plot arises; after the end of the exemption period the tax rate is 1.5% of the cadastral value.

0%
rate of transport tax for 10 years

Exemption from transport tax for 10 years starting from the month of registration of a vehicle.

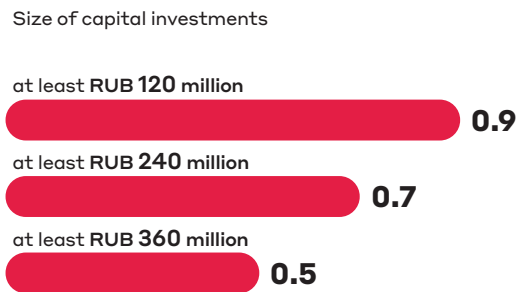
Privileged lease of land

The basic rental rate is 2% of the cadastral value. In some cases a reduction coefficient¹ is applied to the basic rate.

Coefficient for the residents engaged in industrial innovations



Coefficient for the residents engaged in industrial production activity



1%
of the cadastral value
is the special price for land purchase

If desired, a resident may purchase the land plot, which has the real estate facilities constructed by such resident, at a price of 1% of the cadastral value.



**ILYA
TURIN,**
Head of Design and
Engineering Department
at Medplant

Resident status gives us a lot of tax preferences and a number of other benefits and services that reduced costs and freed up resources for further development.



**ALEXEI
DRONDEL,**
Project Manager
at GemaTech

Reducing costs allows you to invest not only in the establishment of modern production, but also in the creation of new products, technology development and scientific base.



**VASILY
SHIMKO,**
CEO of Chirana+

The low profit tax rate, customs privileges, and attractive lease terms allow us to significantly decrease production costs and reduce the net cost of products. So, we can be more competitive and flexible.

¹ Reduction coefficients are set by the Order of the Ministry of Economic Development and Trade of the Russian Federation No. 190 dated July 14, 2006.

How to become a resident

Three steps to become a SEZ resident

1st step



Sign a lease agreement, build production facilities and launch production

2nd step



Prepare a package of documents and submit an application to the Department of Investment and Industrial Policy of Moscow

3rd step



Check if your company meets the requirements and choose a site

Five requirements to a resident

1st requirement



Registration (except for a unitary enterprise) in Moscow within the boundaries of the municipality the Special Economic Zone is located in

2nd requirement



No branches and representative offices as well as economically autonomous subdivisions outside SEZ

3rd requirement



No right to delegate resident's rights and obligations under the residential agreement on specific activities to another entity

4th requirement



Concluding an agreement on industrial production or industrial innovations

5th requirement



Conducting business on the territory of SEZ in accordance with an agreement

The Special Economic Zone offers residents options for locating their facilities on brownfield or greenfield sites.

A brownfield site implies leasing of production and/or office spaces. Such spaces are already equipped with the necessary utilities, and the business will not be required to make a significant investment in adaptation of those.

54,000 RUB / m²
investment over 5 years

72,331 RUB
average salary per calendar year

251,000 RUB / m²
revenue per a year



Greenfield format implies running a capital construction project on a land plot by a resident. The choice of this format will require the resident to invest in construction, but since the object is created from scratch any specific business requirements may be met.

303 RUB million / ha
investment over 5 years

72,331 RUB
average salary per calendar year

379 RUB million / ha
revenue per a year

It is possible to choose the format of company location according to the preferences and business profile.



VALENTIN STOLYAROV,
Financial Director of
BiforCom Tech

Technopolis Moscow SEZ has huge clean rooms in which new production facilities can be deployed. SEZ offers the maximum assistance of own staff in passing the project appraisal. For our engineering enterprise, which not only produces, but also invests a lot in research work, tax abatements have been a great help.



ASHKHEN HOVSEPYAN,
CEO of Additive Engineering

Our production is compact and intelligent, but it has certain industrial requirements. We found decent premises at the SEZ site with all necessary conditions for our printers to work effectively for decades without breakdowns.



ALMAZ BEKBAEV,
CEO of Sigma Laboratories

The presence of quality infrastructure, clear and transparent roadmap of becoming a resident, prompt resolution of all difficulties and convenient service tailored to the residents and their needs helped our company to launch the production immediately.

SERVICES & FACILITIES

Technopolis Moscow SEZ provides services that help residents conduct their activities in a comfortable environment. For participants at all sites, SEZ services are as accessible and convenient as possible.

Consulting services

- One-stop service for obtaining approvals and permits
- Support for obtaining state support measures
- Assistance in fundraising (grants, subsidies)
- Legal services
- Intellectual property management
- Project expertise
- Educational workshops

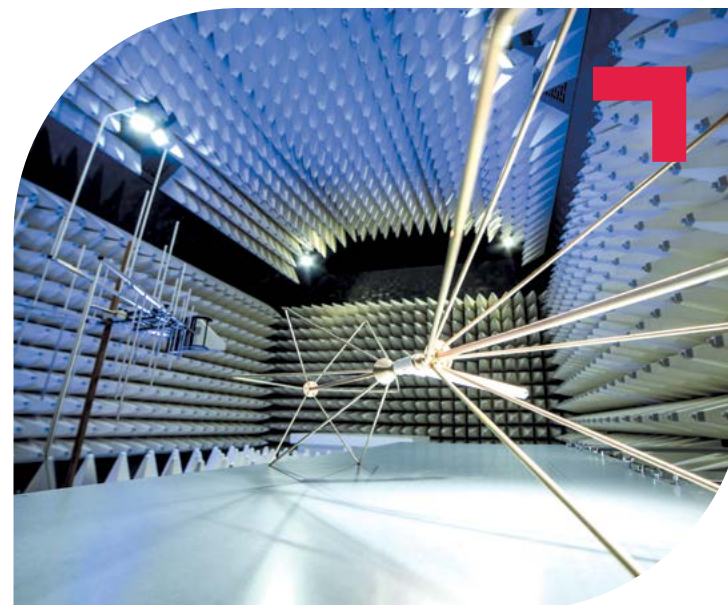
Marketing and PR-support

- Organization of business events
- Marketing and PR-promotion of the residents and partners
- Advertising services
- Organization of industrial tours



Providing access to the innovation infrastructure

- Centers for collective use of equipment
- Prototyping services
- Engineering complexes



Services in the field of transport and logistics

- Resident personnel transportation services
- Logistics services
- Customs brokerage
- Temporary storage warehouse
- Customs control zone at the residents' site

Services in the field of operating activities

- Facilities/engineering services
- Office rent
- Security services
- IT services
- Video surveillance
- Cleaning of the territory, garbage collection
- Parking
- Catering
- Built-To-Suit service - working space according to an individual project
- Technical customer service
- Landscaping and gardening
- Cleaning
- Maintenance of buildings and structures
- Courier delivery
- Provision of office furniture
- Fire safety



**ILYA
LAVERICHEV,**
Head of Special Design
& Engineering Bureau
of Applied Robotics

On all the issues that arise, we are assisted by representatives of Technopolis Moscow SEZ, who cover all our achievements in the media as well.

Resident's personal account

Each resident of Technopolis Moscow SEZ can use the Resident's Personal Account service. To get access to a personal account, a resident needs to get registered on the SEZ portal. In the system you can apply for more than 300 types of services, including:

- Additional services provided by the SEZ, such as temporary storage warehouse rentals, logistics center services, postal services, courier or cleaning services
- Filing requests for troubleshooting problems, such as repairing faulty lighting, ventilation or elevator systems
- interactive maps of SEZ sites in Zelenograd and Pechatniki that can be used to find a vacant plot to rent
- A newsfeed that tells about the most important events in the life of the SEZ and its residents

- Built-in chat for communication with the personal manager of the management company, as well as with other residents
- Residents' industrial cooperation module



Free customs zone

There is a free customs zone (FCZ) on the territory of Technopolis Moscow SEZ. FCZ is a customs procedure under which goods are placed and used within the free economic zone without payment of customs duties and taxes and without applying non-tariff regulation measures to foreign goods and without imposing any prohibitions or restrictions on goods of the Customs Union¹.

0%
VAT on imported goods

0%
customs duties



Each resident has an opportunity to equip customs control zones on the territory of a facility of such resident.

Besides the zero rate of VAT on import of goods and the customs duty, residents receive consulting support from the managing company of the territory when applying the FCZ procedure.

Post of actual control

As part of the FCZ in the Special Economic Zone of Moscow, a post of actual control has been organized. It is an innovative customs post where goods can be declared to the electronic declaration center².

Temporary storage warehouse

The temporary storage warehouse features 650 m² of enclosed storage spaces and 1,650 m² of an open site. The warehouse can accept vehicles around the clock, and the parking area accommodates up to 20 vehicles.

Five companies have already opened customs control zones in Technopolis Moscow SEZ.

- **Nanotechnological Center of Composites (NCC)**, the producer of composites that covers the full cycle of development and manufacture of the products from polymer composite materials for various industry sectors
- **NexTouch**, manufacturer of interactive equipment, computer facilities, software, and hardware-software complexes
- **Inkoro**, manufacturer of medical products for urology
- **GemaTech**, manufacturer of medical products, devices and accessories for stoma care
- **Chirana+**, the manufacturer of medical equipment of expert and professional class



ALEXEY
RANNEV,
CEO of NCC

“ We have been working on the territory of the SEZ for fifteen years. Many conditions have changed during this time, but the undoubted benefits are the comfortable rent, tax preferences and the availability of our own customs post: we act both as importers and exporters. For business, it is very profitable to work in the SEZ.

¹ Point 1 of Article 10 of the Agreement on Free (Special, Exclusive) Economic Zones in the Customs Territory of the Customs Union and the Customs Procedure of the Free Customs Zone.
² The post of actual control has no right to register declarations of goods, except for the cases stipulated by the Decision of the Customs Union Commission No. 263 dated May 20, 2010.

Event production

Residents can use the specially equipped halls of the Technopolis Moscow SEZ to hold press conferences and business forums. All premises correspond to class A.



PECHATNIKI CONGRESS CENTER

Modern space in the technological heart of Moscow.

2,164 m²
area

800 seats
visitor capacity

ALABUSHEVO CONGRESS CENTER

A team of professionals and the modern equipment for events in Zelenograd.

2,500 m²
area

1,200 seats
visitor capacity

When organizing an event in any of these halls the resident may anticipate high-quality and professional support. Technopolis Moscow SEZ offers the following:

- Technical equipment
- Free guarded parking
- Catering or using their own kitchen
- Security system
- Transport accessibility
- Rental of furniture and equipment
- Support of low-mobility participants
- Multi-format spaces



SRETENKA CONFERENCE HALL

Cozy space in the historical center of Moscow.

257 m²
area

80 seats
visitor capacity

No. 1 in customer focus

Gold medalist in the Investment Attractiveness Rating as per AC Expert assessment

Technopolis Moscow SEZ took the first place in the Fifth Rating of Investment Attractiveness of Russian Industrial Parks and Special Economic Zones compiled by the Analytical Center (AC) Expert according to the results of 2021. Thus, Moscow SEZ moved up in the rating by four positions at once, ahead of 116 applicants. The analysis of attractiveness of industrial sites was carried out on the basis of comparison of two indexes: client-focus of management and investment potential.

The capital SEZ received the highest scores on the level of client-focus due to a wide range of services: the site announces the provision of 19 out of 21 analyzed types of services, and the main positions in the calculation of the index of investment attractiveness are caused by its location in Moscow.

Winner of the National Rating of Investment Attractiveness of Russian SEZs (ACIT RF)

In 2021 Technopolis Moscow SEZ took the first place among the SEZs specialized in industrial innovations, at the Fifth National Rating of Investment Attractiveness of SEZs initiated by the Association of Clusters, Technology Parks and Special Economic Zones of Russia (ACTP RF).

In particular, authors of the rating note that Technopolis Moscow SEZ "has no equals among all SEZ of technology-innovative type with regards to the ratio of actually attracted residents to the planned value." The success of SEZ in attracting investors is explained by favorable conditions for entrepreneurship.

Also, the website of Technopolis Moscow SEZ (both its Russian and English versions) is recognized as the best among all those of Russian SEZs, which specialize in industrial innovations.



Additional opportunities for residents

To reduce the dependence of priority sectors of the economy on imported components and to expand the market for resident products, the management company of the SEZ has launched the TechnoReboot project. The official website of the SEZ has a section for customers who are interested in supplying domestic products: here one may establish direct contact with the manufacturer, as well as place a request for the sale of products.

Data on the products of SEZ resident companies and tenants related to priority industries are entered in the Register of the Ministry of Industry and Trade of Russia, thus the products are available for state procurements. As of today the products of eight companies were entered into the Register.

Within the framework of the agreement on cooperation with the Skolkovo Foundation and the Russian Export Center, the SEZ residents can use the whole range of products and services provided by these development institutions, for example, related to certification, patenting and licensing of products. It is also planned to place start-up companies on the SEZ facilities, to establish a production cycle. Such companies can simultaneously have the status of SEZ resident and participant of the Skolkovo project.



INTERNAL COOPERATION OF RESIDENTS

The SEZ is not only an atmosphere of innovation and an environment for the exchange of experience between high-tech companies operating in close proximity to each other, but also an opportunity to build mutually beneficial partnerships between residents.

Cooperation allows residents to optimize the expenses for purchasing components, save on logistics, receive batches of products of any volume, order items with individual characteristics or manufacture such items themselves by renting the necessary production equipment from their colleagues. Technopolis Moscow SEZ has many examples when residents place orders with their neighbors and, in turn, offer their products to other residents.



**VASILY
SHIMKO,**
CEO of Chirana+

Neighborhood and constant exchange of experience with fellow residents (working in other high-tech areas) help to synthesize the most advanced approaches in the product. It is thanks to this cooperation that our company has established the production of portable ventilator models with Russian components, which are produced by our neighbors in Technopolis Moscow SEZ.



**GENNADY
DYOGEV,**
CEO of Technopolis
Moscow SEZ

One of the projects of the thematic year will be cross tours, thanks to which companies will be able to visit the production facilities of the SEZ and establish contact with each other. This also contributes to the development of industrial tourism — another task of the Special Economic Zone.



NextPanel 75 interactive panel

NextPanel 75 is a multi-touch device, the information on which can be controlled by hands, special markers or pointers. An interactive panel may be used for visualization and storage of information, processing of large databases, and video broadcasting. The product is produced by the SEZ resident — NexTouch. Another company having its production localized in the SEZ, EMPP Company, has also contributed to the project: it manufactured the aluminum body for the panel.



Chirologic ventilator

This high-tech medical device is produced by the SEZ resident — Chirana+. In its production the company uses a wide range of components manufactured by another company that localized its production in the SEZ, the EMPP company. Those components include a number of metal housing products made on CNC machines, as well as components made of plastic.



PUBLIC AND PRIVATE PARTNERSHIP

One of the ways to develop business within the SEZ is a public and private partnership, in particular through offset contracts with the Moscow government.

Offset contract is an effective mechanism of public and private partnership: investors launch new lines and open new production facilities, and the city guarantees that it would purchase those products during the course of several years. For the capital, an offset contract is an opportunity to attract investment and implement import substitution, and for business it is a long-term guarantee of the volume of product sales.

The Moscow government was the first in the country to begin concluding offset contracts. Technopolis Moscow SEZ became a convenient platform for new production within the framework of such contracts, and now there are already examples of successful cooperation between the city and business.



18.4 RUB billion
amount of the contract

R-Opra is constructing a factory for the production of 56 kinds of drugs.

R-Opra (part of R-Pharm Group) is investing in a production line under an offset contract that was concluded with the city in the fall of 2018. Under the offset contract, the company will invest at least RUB 5.8 billion in the creation of the production line and ensure the supply of drugs to the city for RUB 18.4 billion. The construction of the facilities is already underway on the Alabushevo site of Technopolis Moscow SEZ. The company's product range include drugs used in the treatment and prevention of endocrine, cancer, cardiac and other diseases: a total of 56 drugs.



8.6 RUB billion
amount of the contract



14 RUB billion
amount of the contract



Gemamed supplies the city with medical products for stoma patients

In 2019, Moscow signed an offset contract with Gemamed, a resident of the capital's SEZ. The investor has invested RUB 1 billion to establish a factory on the territory of Technopolis Moscow SEZ for the production of medical goods for stoma patients. Under the terms of the contract, the city will be purchasing these products for eight years, its total cost would make RUB 8.6 billion. In 2022, under the offset contract, Gemamed has already delivered more than 800 thousand medical products for stoma patients who receive those from the city free of charge.

In 2021, Biocad delivered drugs to the city for RUB 1.5 billion

In 2017, Moscow signed Russia's first offset contract for the supply of medicines with Biocad. According to it, on the territory of the capital SEZ in Zelenograd, the investor constructed a factory for the production of medicines, and the supply of those began in 2021. Today the company produces medicines for the treatment of cancer, autoimmunities and a number of other diseases. In 2021, Biocad produced about 290 thousand packages of finished products worth over RUB 1.5 billion. According to the contract, the company will supply more than 30 types of medicines to treat socially significant diseases for almost seven years. As a result, Moscow will purchase manufacturer's drugs for RUB 14 billion.

Biocad also plans to set up manufacture of other items on the production site within Technopolis Moscow SEZ. Updated licenses for production of liquid dosage forms for immunobiological, biological and chemical preparations have already been obtained. The company has already invested more than RUB 4.7 billion in the project run on the territory of the capital SEZ.

Ecoplast recycles waste electronic equipment

According to the provisions of the public and private partnership agreement concluded in January 2022 between the Government of Moscow and JSC Ecopolis Corporation, the company will carry out the complete cycle of collection and ecological recycling of waste electronic and electrical equipment generated in the capital. All equipment sorted here will be directed to the factories of EcoTechProm and Ecoplast (the latter is a resident of Technopolis Moscow SEZ). Thanks to the unique chain of raw materials and the most up-to-date technology, the company returns into the economic turnover up to 95% of the components from the recycled machinery, as secondary raw materials. For comparison, in Europe, 60% is a good indicator. The project is a strategic and institutional alliance of the state and business, which in the future can be scaled up to the entire country.

EVENTS OF THE YEAR

Over
80
events

Over
8,500
participants

70%
of companies
participate in events

90%
of events are covered
by the media

TechnoEnvironment: assistance, development, association

TechnoEnvironment encompasses events of various formats to develop residents' business, build communications and create an innovative and creative atmosphere.



TechnoMove Award

Award for the best projects and achievements of Technopolis Moscow SEZ residents.

The Award reveals the best projects, practices and new trends in the development of innovative business. This year all residents of Technopolis Moscow SEZ took part in the TechnoMove Award.

The TechnoMove Award offers the following opportunities:

- Professional recognition and influencing the vector of Moscow industry development
- Sharing effective tools
- Finding new investors and partners
- Growth of professionalism and attracting the best personnel

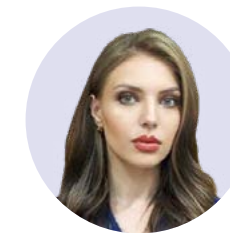
22
nominations



Over
100
applications



44
companies
presented their innovative
technical solutions



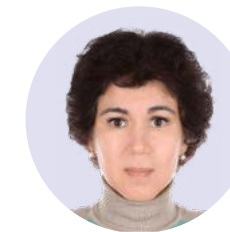
**DARIA
TREMASOVA,**
Evrial

|| *This Award allows one to think about further plans. We want to achieve ever-greater results.*



**IRINA
AZOPKOVA,**
Additive Engineering

|| *When you are evaluated for your professional skills, you get inspired, you come to new ideas and you want to move forward.*



**SHAKHNOZA
SALMANOVA,**
ANCUD

|| *It is very nice to feel that our company is important. Participating in the competition helped us make many new important contacts.*



**ANNA
KONDRATYEVA,**
JSC NIIME

|| *Recognition by experts of that level is very important for the company: it is the opinion of our colleagues — the companies that we work and cooperate with. I'm sure that many have made new partners here and found new useful contacts.*

Resident induction

An important component of the corporate culture of the capital SEZ.

Traditionally, companies that received resident status in Technopolis Moscow SEZ take part in a ceremony of induction into the technological community of the capital. This is a special moment in the company's development, behind which there is a lot of preparatory work to pass a strict selection.

At the event new members of the community get acquainted with colleagues, talk about the specifics of their business, present their investment projects and identify possible areas of cooperation.



Open Day

In honor of Science Day and Robotics Day, Technopolis Moscow SEZ opened its doors to all comers.

The Pechatniki site hosted a guided tour through an exhibition of photographs of the most closed robotics production facilities.

Participants visited the Moscow State Educational Complex and learned how to program industrial robots to solve production problems (welding, moving loading materials, plasma cutting), as well as how to assemble robots that are resistant to radiation, why robotic sappers are needed and how drones are useful in first aid.

Over
400
participants



TechnoClub

A community of people enamored of innovation.

Within TechnoClub, its members find partners, create new projects and generate breakthrough ideas.

8
meetings



Topics for discussion:

- Robotics Capabilities
- Prospects of Space Industry Development
- Additive Technologies
- Industrial Design
- Microchip Market
- Talent Pool for High-Tech
- The era of robots: trends and market prospects



VALENTIN STOLIAROV,
Member of the Board of Directors, BiforCom Tech

Technopolis Moscow SEZ is a constant generator of interesting ideas that unite the companies operating on its territory. Events of such original formats as TechnoClub, residents club, business-breakfast, and others that are held within the TechnoEnvironment framework are already becoming traditional. All this atmosphere of technical innovations, in addition to tax and customs preferences, is becoming another attractive option for many companies planning to become residents of the capital SEZ.



TechnoEnvironment Festival at VDNKh
(All-Russia Exhibition Center)

400
participants



The TechnoEnvironment festival was held within the Year of Science and Technology and united the scientific community and developers of innovative products on a single site.

Residents of Technopolis Moscow SEZ demonstrated the latest developments and acted as experts in their fields, within the single space of the festival.

The following was presented in the zone of large objects:

- Drive Electro — the first electric truck in Russia
- Diagnostika-M — a mobile cargo inspection complex

Resident club meetings

Discussions of residents' best practice cases, meetings with experts.

Some of the topics of the year's events:

- Digitalization of Industry: the Latest Technologies and Support Measures
- Business Development: Sberbank Preferential Crediting and Ecosystem
- Where to Search the Talents for High-Tech Companies
- Patents: from Idea to Execution
- Brownfield vs Greenfield
- How to Enter the Innovative Procurement Market
- Export Practices
- Industrial Cooperation and Partnership in the SEZ



TechnoSeasons

TechnoSeasons mean concerts, exhibitions, championships and tastings, where the residents have a fun and benefits: they communicate, get new knowledge and impressions, share creative ideas and good mood.

12
events



Over
450
participants



- Musical networking: In the Working Afternoon
- Intellectual business games: Battle of Intellectuals
- Master class: production technology demonstration and mini-lecture on the development of the Moscow confectionery industry
- An event to build communications and create synergies for promoting the brands of the SEZ residents





Round tables

Round table: Industrial and Warehouse Real Estate for Investment and Production.

240

participants:
real estate market experts and SEZ residents



Topics for discussion:

- Portrait of an Industrial Property Tenant
- Optimization and Development of Services and Facilities for Particular Segments
- Inventory and Digitalization of Light-Industrial Real Estate
- Peculiarities of Industrial Real Estate Management
- The Choice of an Effective Leasing Policy
- Investment Potential of Industrial Real Estate Market of Moscow Region

TechnoFamily Day

Children of employees of resident companies visited the site of Technopolis Moscow SEZ where they learned how their parents create innovations and which professions are especially in demand today.

Over
40
children
took part in the event



Excursions to high-tech enterprises of the SEZ became the central event.

Young guests saw how medical products for ambulance and medical care are manufactured at Medplant and what the country's largest digital printing house netPrint is like.

The children were especially impressed with the laboratory of the company Scientific Entertainment, where they could try themselves in the role of a young chemist, physicist and engineer.



TechnoDrive

The first PR-hackathon of Technopolis Moscow SEZ for students of Moscow universities.

100
participants



In a format of brainstorming, students solved non-standard PR-cases based on real companies, met enthusiastic people and exchanged ideas.

The cases for the hackathon were provided by the Moscow SEZ residents being the leading high-tech companies: Mikron, JSC PROTON Plant, Chirana+, Digital Solutions Workshop, NexTouch, Microbor.



Participation in SPIEF-2021

Investor Relations Strategy

At the Investment in Moscow — Opportunities for Everyone event during St. Petersburg International Economic Forum, Technopolis Moscow SEZ presented their strategy of interactions with investors.

The discussion involving the representatives of Moscow City Government, consulting companies, diplomatic community, and real estate market experts focused on attracting foreign investments into the economy of the capital city and the role of the special economic zones in the development of its competitive advantages.



Agreement with the Innovations Assistance Fund

In the framework of SPIEF-2021, Technopolis Moscow SEZ and the Innovations Adjuvancy Fund signed a cooperation agreement to create favorable conditions for the development of high-tech productions.

In collaboration with the Innovations Adjuvancy Fund, the Moscow Special Economic Zone will create the opportunities for attracting extrabudgetary co-financing to the implementation of high technology projects, the involvement of small businesses in the technological upgrading of industries and the development of new markets as well.



Contests

Radiofest-2021

- Initiators/organizers:**
- Ministry of Science and Higher Education of the Russian Federation
 - Ministry of Trade and Industry of the Russian Federation
 - Russian Foundation for Advanced Research Projects
 - Technopolis Moscow SEZ

100
participants



As part of the Year of Science and Technology, the Alabushevo site hosted the Third All-Russian Engineering Competition on the Promising Areas of Radio Communications — Radiofest-2021.

The Competition became a nationwide platform, which brings together student teams and radio enthusiasts who have innovative scientific and technical ideas in the field of radio communications.

Another important goal is to replenish the personnel reserve for the SEZ residents.



Reception of delegations

Delegations from Russian regions as well as foreign guests from the East and Asia.

11
events



The participants of the delegations get acquainted with the activities of the SEZ, with the possibilities of localization of innovative production at the sites, discuss the details of cooperation with the existing residents and tenants. Such meetings promote the development of interregional cooperation in the high-tech sphere.

Road Show

Points of Attraction for a New Generation of Industry

Technopolis Moscow SEZ actively uses the Road Show format to attract new investors. Such presentations allow experts and business representatives to publicly familiarize themselves with the development plans of the Moscow SEZ territories.

255
participants



- Market experts estimated advantages and attractiveness of the offers made by the sole special economic zone of the capital.
- Plans for the development of SEZ Alabushevo and Pechatniki, as well as those for the industrial park Rudnyovo were presented to the participants.
- Current SEZ residents told why they chose Technopolis Moscow SEZ as a platform for business development.



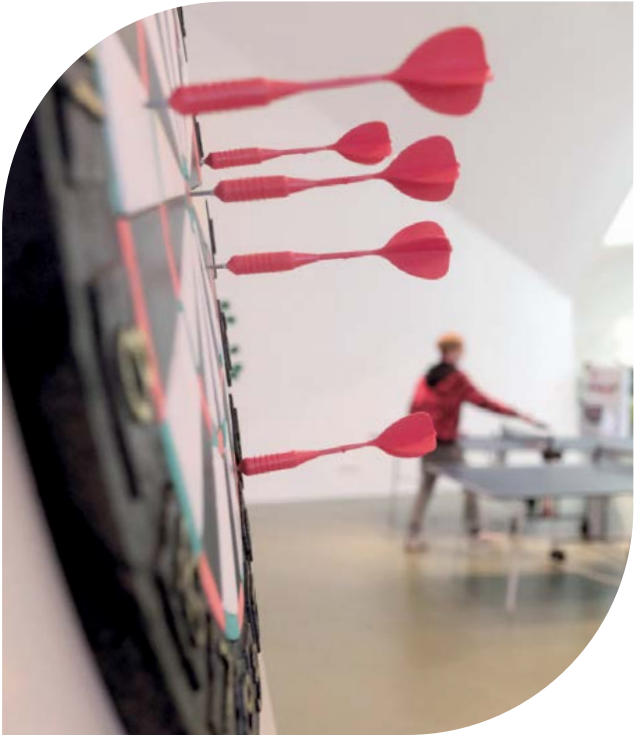
High days

In 2021, Technopolis Moscow SEZ launched radically new formats of corporate holidays.

TechnoStagParty

On the Defender of the Fatherland Day, all the men of the Special Economic Zone received invitations to the TechnoStagParty.

The program included competitions in table tennis, darts, chess, dominoes and Battle City. Participants shared memories of military service.



TechnoButterWeek

On March 12, for the first time TechnoButterWeek festival took place in SEZ: it was a celebration of spring as a symbol of bright ideas and daring decisions necessary for the technical progress.

Residents and tenants of the capital SEZ took part in the valiant games and treated themselves to special pancakes. The concept of TechnoButterWeek celebration combined traditional fun and frolic with modern technology.



Adult Children's Day

On Children's Day on June 1st, all residents and tenants of SEZ had an opportunity to feel themselves like kids and return for a while to the carefree time of their childhood.



The Blooming May Day

In anticipation of the upcoming May holidays and the opening of the dacha season, Technopolis Moscow SEZ held a Flower Swap: all kinds of plants, both outdoor and indoor ones, could be exchanged. The event also included a tree planting.

Exhibitions and festivals



The legendary Moskvich

A festival of retro cars at the territory of the capital SEZ was organized by the Moskvich Automobile Enthusiast Club.

The history of AZLK factory, which produced the entire model range of famous cars, is not forgotten, the continuity of generations is preserved. Today, within the automobile factory facilities, advanced industries are being developed.

For several years, fans of the legendary car traditionally meet on the site of the capital SEZ.

In 2021, 100 Moskvich cars were presented at the festival: almost the entire model range, including rare designs (the Kalita, the Duet, and the Moskvich pickup).



Industry is beautiful

The site of Alabushevo hosted a unique exhibition: the industry through the eyes of Yulia Pasechnik, the famous photographer from Zelenograd.

Yulia's works have been repeatedly exhibited at the St. Petersburg International Economic Forum and Innoprom International Exhibition (at Uralmash factory).



Master classes

Open lecture: Professions of the Future

Alyona Vladimirkaya, 'the Chief Headhunter of Runet', told about the labor market development within the next 5 to 10 years: what professions would be in demand for manufacturers, where to get education, and what would happen on the technology market.



Initiatives

Mayor of Moscow, Sergey Sobyenin, congratulated the WorldSkills champions in the SEZ



The race on the territory of the Alabushevo site

The first PR-hackathon on promotion of residents' innovations gathered representatives of capital's higher educational institutions



Inauguration of the monument to the soldiers called up from the automobile factory



National radio communication competition in the SEZ gathered the teams from 20 regions



Moscow SEZ together with MIET held the contest of engineering projects: Young Innovator



Moscow SEZ agreed on cooperation with St. Petersburg SEZ



Festival of Moskvich cars held in the SEZ



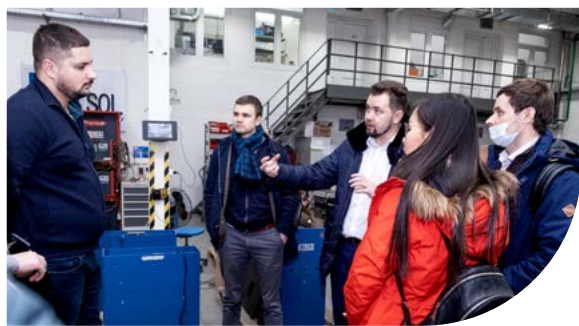
The SEZ has presented its competences at Moscow Urban Forum



Finals of All-Russian pharma race were hosted by the SEZ



Members of the Club of Young Industrialists of the Russian Ministry of Industry and Trade visited the SEZ



Company's details

JSC Special Economic Zone Zelenograd
7735143008



Legal address:

14 Konstruktora Lukina Str., Building 1, Zelenograd, Moscow, 124460



Web site:

<https://technomoscow.ru>
+ 7 (495) 647-08-18



For rent and obtaining resident status:

Svetlana Malinina
Deputy Director for Investor Relations
+7 (915) 230-04-11
smalinina@technomoscow.ru

Andrey Nizhegorodov
Project Manager
+7 (985) 096-01-58
anizhegorodov@technomoscow.ru

For media representatives:

42 Volgogradsky Prospect Av., Block 5, Moscow, 109316
+7 (968) 614-77-16
pr@technomoscow.ru

