

INNOVATION TERRITORIAL CLUSTER
OF THE SVERDLOVSK REGION

TITANIUM CLUSTER OF THE SVERDLOVSK REGION



TITANIUM
VALLEY

Special Economic Zone



The Ministry of
Industry and Science of
the Sverdlovsk Region

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WELCOME GREETING OF THE MINISTER OF INDUSTRY AND SCIENCE OF THE SVERDLOVSK REGION

The world experience of the economically developed countries shows and proves both an effectiveness and an inevitable regularity of appearance of various types of clusters. Abroad, the clusters are currently one of the catalysts of economic and innovative growth of a territory, and a powerful instrument of the development of small and medium enterprises. The clustering level of a regional economy is one of the factors to provide its competitiveness.

Rapid development of the information technologies and logistic systems lead to a situation when information transfer and finance flow have become practically instant, and freight transportation – cheap and quick. Due to this, it's not only innovations and education that become the most important factors of achieving and retaining competitive advantages but also relations between the companies, which provide the conditions for setting up the networking cluster structures.

One of priority elements of the industrial policy in the Sverdlovsk Region is a cluster policy, the goal of which is to increase the competitiveness of its business units and regional economy as a whole, as well as development of import substitution by creation of the conditions for cluster formation and development.

Currently, on a regional “cluster map”, one can identify the Titanium Cluster of the Sverdlovsk Region, a unique cluster from the production point of view, included in the List of Innovation Territorial Clusters of

the Ministry of Economic Development of the Russian Federation. Its nucleus is the world largest and Russia only producer of titanium products PSC VSMPO-AVIS-MA Corporation (part of Rostec Corporation).

The Sverdlovsk Region Government has approved a program of the Innovation Territorial Cluster of the Sverdlovsk Region “the Titanium Cluster of the Sverdlovsk Region” for 2014 – 2017 by its Decree No. 1261-RG of 14.10.2014, where they define the key goals of the Titanium Cluster development, including the increase of competitive performance of titanium industry in Russia, the strengthening of its leadership in the world production of hi-tech products from titanium alloys, the extension of the country share on the world market of titanium products, the development of import substitution on the basis of titanium application in domestic industrial complex, and the development of new technologies for the Russian market.

Taking into account the scientific, technical and production potential of the cluster Participant Organizations, one can be confident in successful development of the Titanium Cluster of the Sverdlovsk Region as well as in the leading role of the cluster in the provision of economic and innovative growth of the Sverdlovsk Region and of the country as a whole, due to the saturation of the regional and the Russian national markets by competitive products of the world level and the newest developments.



ANDREY MISYURA

THE MINISTER OF INDUSTRY AND SCIENCE OF THE SVERDLOVSK REGION

INNOVATION TITANIUM CLUSTER OF THE SVERDLOVSK REGION

ACHIEVEMENTS



In 2012, an agreement on the establishment of the Titanium Cluster is signed between 11 organizations. In 2014 - 2015, 16 other organizations entered the Cluster.

26

The Titanium Cluster is included in the list of 26 pilot innovation territorial clusters, which received the administrative and financial support of the Russian ministry of Economic Development.



In December 2014, the Cluster received financial support from the Russian Ministry of Economic Development and the Sverdlovsk Region Government; the implementation of the complex plan of measures for its development began.



In 2015, the Titanium Cluster Participants have approved 14 promising investment projects, which were planned to implementation by two and more Cluster Participants. For more effective resource distribution and taking into account the potential of the projects, the Cluster Participants have identified 5 most promising projects of the 1st stage and 9 projects, which need additional elaboration.



Promotion of the competitive ability of the Russian titanium industry and enhancement of its leadership in the in the world production of hi-tech products from titanium alloys, the extension of the country share on the world market of titanium products.



Development of import substitution on the basis of titanium application in domestic industrial complex.



Encouragement of innovations in the titanium industry.



Social and economic development of the Sverdlovsk Region.

MANAGEMENT OF THE INNOVATION TITANIUM CLUSTER

GENERAL MEETING OF TITANIUM CLUSTER PARTICIPANT ORGANIZATIONS

All executives of the Cluster participant organizations, which have signed the Agreement on Establishment of the Titanium Cluster of the Sverdlovsk Region, as well as of the organizations, which have joined the Agreement on Establishment of the Cluster later, take part in the General Meeting.

The General Meeting of the Cluster Participant Organizations takes decisions on the following issues:

- development strategy of the Cluster;
- approval of development programs of the Cluster;
- approval of the reports presented by the Specialized Organization of the Cluster;
- other issues, submitted to discussion by the Specialized Organization or by the initiative of the Cluster Participants.

THE COUNCIL OF THE TITANIUM CLUSTER

The Council of the Sverdlovsk Region Titanium Cluster Participant Organizations includes not less than 5 persons. The members of the Council are elected and approved by the General Meeting of the Cluster Participant Organizations.

The Functions of the Council:

- positioning of the Cluster on both federal and international level;
- provision of favorable investment climate of the Cluster;
- initiation and accompaniment of key investment projects.

THE MINISTRY OF INDUSTRY AND SCIENCE OF THE SVERDLOVSK REGION

It is an authorized body of the Sverdlovsk Region executive power working together with the Russian Ministry of Economic Development on implementation of pilot programs for the development of innovation territorial clusters.

SPECIALIZED COORDINATOR ORGANIZATION

It provides methodological, organizational, expert, analytical and informational support to the Titanium Cluster. It is established on the basis of "Titanium Valley SEZ" OJSC.



LOCATION OF THE INNOVATION TITANIUM CLUSTER OF THE SVERDLOVSK REGION IN THE NATIONWIDE

THE SVERDLOVSK REGION TITANIUM CLUSTER PARTICIPANTS

Ekaterinburg

6 research institutes, 11 industrial production companies, 1 higher school, 6 potential cluster participants

Nizhny Tagil

1 industrial production company, 2 potential cluster participants

Verkhnyaya Salda

6 industrial production companies, 1 higher school, 1 intergovernmental association, 3 potential cluster participants



PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER



PJSC "VSMPO-AVISMA CORPORATION"

PJSC "VSMPO-AVISMA Corporation" is the world's largest manufacturer of highly processed titanium products, with a complete production cycle.

The Company exports 60% of the products it manufactures to customers in 50 countries across the world. The Company has a 30% market share in aerospace titanium, and a 25% market share in industrial titanium.

The Company's main customers are the world's leading manufacturers of aircrafts and engines: Boeing, Airbus, Embraer, Rolls-Royce, Snecma, Messier-Bugatti-Dowty, Pratt & Whitney et al.

GENERAL DIRECTOR

Mikhail Voevodin

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"VSMPO - NEW TECHNOLOGIES" LLC

"VSMPO - New Technologies" LLC is organizing a production of machined die-forged titanium products for the aerospace industry. The new production facility's site is planned to be located in the Titanium Valley SEZ.

The range of items planned for production (within the scope of rough and semi-finished machining) is as follows: elements of the airframe; wing structure elements, including components of high-lift devices; landing gear parts; pylon structure elements.

DIRECTOR

Vitaliy Volkov

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Ural Boeing MANUFACTURING

JSC "URAL BOEING MANUFACTURING"

JSC "Ural Boeing Manufacturing" is a joint venture with the Boeing Company.

It is engaged in rough machining of die-forged titanium items for the Boeing 737, 777 and 787 series civil aircraft.

GENERAL DIRECTOR

Terrence Arthur Sacks

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ТИТАНОВАЯ ДОЛИНА

"TITANIUM VALLEY" SPECIAL ECONOMIC ZONE

The Titanium Valley Special Economic Zone is an investment-industrial platform where business leaders of the world lay the foundation for reliable and effective businesses.

Priority sectors: manufacturing of titanium products, manufacturing of components and equipment for the metalworking and mechanical engineering industries, production of construction materials.

GENERAL DIRECTOR

Artemiy Kyzlasov

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PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER



“SYNERSYS” LLC

“Synersys” LLC produces modern power-saving high voltage (up to 750 kV) equipment for the Russian, CIS, and European markets.

GENERAL DIRECTOR

Pavel Konyshov

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REGIONAL ENGINEERING CENTER

JSC “REGIONAL ENGINEERING CENTER”

The JSC “Regional Engineering Center” is a project that brings together the efforts of its founding members – Government of the Sverdlovsk Region, UrFU, and major industrial companies - aimed at modernizing the region’s industrial sector.

The core competencies of JSC “Regional Engineering Center” comprise additive manufacturing and laser technologies, as well as industrial engineering. The company possesses the most modern machinery and equipment and its staff of engineers is fully capable of resolving even the hardest technological process tasks - from CAD design and prototype manufacturing to starting the solicited product’s full scale production.

JSC “Regional Engineering Center” is the promoter and active participant of the additive technologies consortium. Other members of the consortium include UrFU, Rosatom State Corporation, and IPG. Moreover, JSC “Regional Engineering Center” is a member of 5 Technology Platform programs, associated member of the “Titan” International Association, member of the Laser Association, and of various other professional associations.

GENERAL DIRECTOR

Aleksey Fefelov

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CJSC “REGIONAL CENTER OF LASER TECHNOLOGIES”

CJSC “Regional Center of Laser Technologies” is a multi-industry company that engages in precision manufacturing of large steel structures weighing up to 15 tons, of parts and assemblies made of titanium and aluminum alloys or various steels, in accordance with the customer-provided samples and drawings using 3D laser technologies for cutting, welding, and heat treatment on laser processing and robotic centers. CJSC “Regional Center of Laser Technologies” also has such equipment as centers for bending, die-forging, milling, and TIG- and MIG/MAG welding.

GENERAL DIRECTOR

Anatoliy Sukhov

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PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER



JSC "URAL RESEARCH AND DEVELOPMENT TECHNOLOGICAL INSTITUTE"

JSC "Ural Research and Development Technological Institute" is a leading engineering company that forms part of the Uralvagonzavod Corporation. The Institute has hundreds of successfully completed projects under its belt, ranging from participation in development of the Lunokhod 1 unmanned moon rover to integration stands for the Armata tracked vehicle platform. The Institute's projects have been successfully implemented both in Russia and abroad (in India, Vietnam, Iran).

GENERAL DIRECTOR

Oleg Murashko

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Sverdlovsk Region, Russia
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URAL FEDERAL UNIVERSITY

URAL FEDERAL UNIVERSITY NAMED AFTER B.N. YELTSIN:

- creates centers of advanced competence, including those in the field of additive manufacturing and laser technologies, R&D centers, certification, shared knowledge and advanced development centers, from creating a prototype of an innovative product to organizing its serial production;
- uses the infrastructure to develop innovative projects, international liaisons in order to attract students and lecturers, to implement joint projects in the field of science and education, partners up with companies who form part of the Titanium cluster to undertake research and practical training in the field of state-of-the-art technologies.

RECTOR

Viktor Koksharov

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Tel.: +7 (343) 375 48 24



URAL BRANCH OF THE RUSSIAN ACADEMY OF SCIENCES

Ural Branch of the Russian Academy of Sciences is a multidisciplinary research and development complex, which comprises 38 institutes. Mission of the Ural Branch of RAS: Fundamental knowledge and highly qualified personnel for the innovation-driven development of the Urals and Russia.

The purpose of the Ural Branch of RAS: bringing scientific research to the level of international standards and improving its practical efficiency by creating a favorable logistical, organizational, financial and social conditions for fruitful creativity.

CHAIRMAN OF THE URAL BRANCH OF THE RUSSIAN ACADEMY OF SCIENCES

Valeriy Charushin

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Sverdlovsk Region, Russia
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JSC "URAL UNIVERSITY COMPLEX"

JSC "Ural University Complex" enables one to offer a complete range of services pertaining to the transfer of technologies from generating an idea to implementing it in production, including project management, investment support; expert, legal, patent, marketing, engineering, and certification services. This is realized with the help of the science and technology park that are joined into a unified ecosystem, which allows the innovators and businesses to implement the results of intellectual activity and bring innovative products to the international markets within a comfortable integrated environment.

GENERAL DIRECTOR

Yevgeniy Siniborov

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PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER

“URALS INDUSTRIAL ELECTRONICS FACTORY” LLC

“Urals Industrial Electronics Factory” LLC is a small innovation-based enterprise working in the field of development and implementation of high-tech energy saving processes. Main products:

- standardized modular power sources for welding and other industrial processes, welding inverters;
- fuel efficiency systems for industrial power facilities, processes and equipment for SNG production;
- amphibious convertible swamp buggies.

GENERAL DIRECTOR

Vladimir Zamurayev

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“URALS WELDING INSTITUTE - METALLURGY” LLC

“Urals Welding Institute - metallurgy” LLC undertakes development of new welding and thermal spraying technologies, conducts research into the structure and properties of coatings, simulates high-temperature physical and chemical processes.

GENERAL DIRECTOR

Yuriy Korobov

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ENCON-SERVIS LLC

Encon-Servis LLC is an engineering company that was created with participation of the Ural Federal University named after B.N. Yeltsin. Main lines of business: energy surveys, implementation of measures aimed at energy conservation and energy efficiency, as well as at creating comfortable living and co-habitation conditions.

Encon-Servis LLC undertakes scientific research in the field of energy transmission and efficient energy consumption.

DIRECTOR

Sergey Fedoreyev

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“NEW METALLURGY” LLC

“New metallurgy” LLC is an innovation-based company, which has among its members the Ural Federal University named after B.N. Yeltsin. The company develops and implements processes that allow to:

- extract non-ferrous, rare, or noble metals from various kinds of raw materials;
- reduce the negative impact of technological wastes on the environment.

The company possesses well-equipped laboratory facilities, a pilot site, and a young and competent team of professionals.

GENERAL DIRECTOR

Anton Mashkin

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“SCIENCE AND ENGINEERING COMPANY “RADIALPRO” LLC

“Science and Engineering Company “RadialPro”” LLC is an engineering company that specializes in developing innovative highly efficient technologies for production of various types of metal products.

The achieved technologies demonstrate reduced waste, better energy efficiency and streamlined production parameters, ensuring the products have a high application performance.

The Company relies on patents in the field of process and machine development and engineering that it obtained jointly with the Ural Federal University named after B.N. Yeltsin

GENERAL DIRECTOR

Artiom Fedulov

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Tel.: +7 905-803 25 66

PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER

INGIMET LLC

INGIMET LLC is involved in the development of ultrasound generators for potentiating technological processes of chemical nature in metallurgy.

DIRECTOR

Aleksey Kopylov

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Sverdlovsk Region, Russia
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ARM-RUS LLC

ARM-Rus LLC provides maintenance and repair services to owners of specialized construction equipment: Liebherr, Bauer drilling rigs; tracked or wheeled vehicle mounted cranes; transportation equipment.

GENERAL DIRECTOR

Anna Sinyagina

CONTACT DETAILS:

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SKEYLIM LLC

SKEYLIM LLC is engaged in creating a multi-functional automated optical system for particle size distribution analysis, which would allow to determine particle sizes within the widest possible range starting from 0.17 nm and up.

GENERAL DIRECTOR

Sergey Shirakov

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“URALS FACTORY OF INNOVATIONS” LLC

- energy surveys of companies, thermal imaging surveys (of electrical equipment, heat and vapor piping, buildings and facilities, thermal and mechanical equipment, chimneys);
- development, installation and setting up of automated metering and monitoring of energy consumptions parameters (ASKUE, AIISKUE), development of automated systems for forecasting the energy consumption;
- performing jobs to measure the power quality in compliance with the requirements of GOST 13109-97, GOST 23875-88.

DIRECTOR

Oksana Belova

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Russia
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“FOUNDRY PRODUCTION UBM” LLC

“Foundry production UBM” LLC was created on the basis of foundry facilities of Uralburmash Corporation and of a specialized machining production.

Main lines of business:

- production of precision casts according to the investment casting procedure;
- casting in sand and sand-resin molds of iron and steel of various grades, including those of heat-resistant and fire-resistant alloy grades (high-alloy cast irons and high-alloy steels), et al.

GENERAL DIRECTOR

Igor Furman

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PRIORITY PROJECTS

1.1. "METAL POWDERS PRODUCTION" PROJECT

Project's promoters:

JSC "Regional Engineering Center", UrFU, PJSC "VSMPO-AVISMA Corporation"
Parties interested in the project's implementation (potential customers): Rostec State Corporation: United Engine Corporation, Roskosmos structures, Rosatom State Corporation: TVEL Fuel Company

Project objective:

Setting up a production of Russian-made metal powders (including titanium ones) for the powder metallurgy and additive manufacturing, including for exports or to substitute imports

2015 - Project kick-off
Length of project implementation period 40 months

Project classification:

International

1.2. CREATING THE TECHNOLOGY AND EQUIPMENT FOR PRODUCING ITEMS OUT OF METAL POWDERS (INCLUDING TITANIUM ONES) THROUGH THE ADDITIVE MANUFACTURING PROCEDURES

Project's promoters:

JSC "Regional Engineering Center", UrFU,
Parties interested in the project's implementation (potential customers): Rosatom State Corporation: TVEL Fuel Company, JSC Concern VKO "Almaz-Antey", Rostec State Corporation: United Engine Corporation, PJSC "VSMPO-AVISMA Corporation",

Project objective:

Creating and implementing an integrated technology of manufacturing products out of titanium and other metals by means of the additive manufacturing procedures (including setting up an industrial facility to produce additive manufacturing machines).

Time line:

2015 - Engineering
2016 - Industrial prototype
2017-2018 - Adjustments and refinements to achieve a production prototype

Project classification:

International

1.3. DEVELOPMENT OF TECHNOLOGIES FOR USING TITANIUM IN MEDICAL APPLICATIONS

Project's promoters:

JSC "Regional Engineering Center", Ural Branch of RAS, UrFU, "Urals factory of innovations" LLC
Parties interested in the project's implementation (potential customers): Medical organizations: G.A. Ilizarov Russian Scientific Center "Restorative Traumatology and Orthopedics", Tyumen Medical Academy, V.D. Chaklin Urals Research Institute for Traumatology and Orthopedics, Urals Treatment and Rehabilitation Health Center (Nizhny Tagil) et al.

Project objective:

Creating technologies for manufacturing Russian-made medical implants and products for the medical industry (including for import substitution purposes)

Time line:

2015-2016 - Elaboration of technology, mathematical modeling, creation of a specialized machine
2017 - Technology refining, implementation, creation of a specialized enterprise
2018 - Permits and approvals procedures, clinical trials and certification

Project classification:

Federal/Sectorial

1.4. TEST AND CERTIFICATION CENTER

Project's promoters:

UrFU, CJSC "Regional Center of Laser Technologies", JSC "Regional Engineering Center", JSC "Ural Research and Development Technological Institute", Ural Branch of RAS, JSC "Ural University Complex" and Rosatom State Corporation
Parties interested in the project's implementation (potential customers): Rosatom State Corporation: TVEL, PJSC "VSMPO-AVISMA Corporation", JSC "Ural Works of Civil Aviation" Rostec State Corporation: United Engine Corporation, JSC "Ural instrument-engineering plant", Urals Diesel-Engine Factory et al.

Project objective:

Creating conditions for the development of new standards and regulations within the scope of activities of the cluster, as well as in relation to the tests and certifications of technologies and products of the cluster's participants

Time line:

2015 - Evaluation of the demand for certification, engineering and establishment of a laboratory, search for commercial partners
2016 - Development of procedures, regulations, first services rendered
2017 - Start of accreditation process

Project classification:

Federal/Sectorial

1.5. SETTING UP A PRODUCTION OF BLANKS, PARTS, AND PREFABRICATED AND WELDED STRUCTURES FROM TITANIUM ALLOYS WITH THE HELP OF LASER BEAM MACHINING PROCESS

Project's promoters:

CJSC "Regional Center of Laser Technologies", PJSC "VSMPO-AVISMA Corporation", Parties interested in the project's implementation (potential customers): PJSC "United Aircraft Corporation", JSC "Regional Engineering Center", PJSC "VSMPO-AVISMA Corporation", JSC Concern VKO "Almaz-Antey", Promelectronica LLC, small and medium businesses that manufacture titanium products

Project objective:

Expansion of the scope of application and depth of processing of titanium alloys

Time line:

2015 - Organizational issues, project preparation
2015 - Commissioning of the equipment, technology confirmation
2017 - Attainment of design capacity

Project classification:

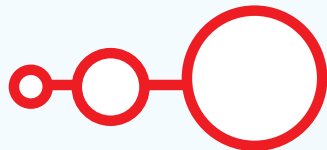
Federal

OPPORTUNITIES AND BENEFITS FROM THE PARTICIPATION IN THE INNOVATION TITANIUM CLUSTER

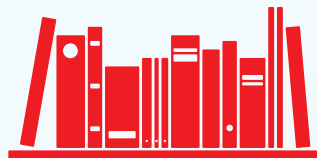
WHAT OPPORTUNITIES WILL YOUR ORGANIZATION OBTAIN BY ITS PARTICIPATION IN THE TITANIUM CLUSTER?



COOPERATION WITH THE PARTICIPANTS OF THE TITANIUM CLUSTER FOR THE DEVELOPMENT, IMPLEMENTATION AND PROMOTION OF INNOVATIVE PRODUCTS



INCLUSION OF SMALL AND MEDIUM SIZED INNOVATIVE ENTERPRISES IN THE TECHNOLOGICAL CHAINS OF THE "TITANIUM VALLEY SEZ" RESIDENT COMPANIES



FREE TRAINING AND EXTENSION OF PROFESSIONAL COMPETENCIES IN THE AREA OF INNOVATIVE DEVELOPMENT IN RUSSIA AND ABROAD



JOINT PROMOTION, PR, ORGANIZATION AND SUPPORT OF EXHIBITIONS AND EVENTS FOR PARTICIPANTS OF THE INNOVATION TITANIUM CLUSTER



PROVISION OF METHODOLOGICAL, EXPERT, ANALYTICAL AND INFORMATION SUPPORT BY THE SPECIALIZED COORDINATOR ORGANIZATION



POSSIBLE RECEIPT OF THE CO-FUNDING FROM THE FEDERAL GOVERNMENT FOR IMPLEMENTATION OF JOINT MEASURES

WHAT BENEFIT WILL YOUR ORGANIZATION OBTAIN AS A PARTICIPANT OF THE TITANIUM CLUSTER?



ADVANCED VOCATIONAL TRAINING OF ITS PERSONNEL



ADDITIONAL LEVERS OF PERSONNEL MOTIVATION



EXTENSION OF THE LINE OF OFFERED GOODS AND SERVICES



INCREASE IN PROFITS DUE TO LOWER TRANSACTION COSTS

CONTACTS OF THE INNOVATION TITANIUM CLUSTER

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THE MINISTRY OF INDUSTRY AND SCIENCE OF THE SVERDLOVSK REGION

VICTORIA KAZAKOVA

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SPECIALIZED ORGANIZATION - COORDINATOR OF THE TITANIUM CLUSTER OF THE SVERDLOVSK REGION, OJSC “SEZ TITANIUM VALLEY”

ARTEMIY KYZLASOV

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