

RFBR Regional Competitions in 2007-08

The Russian Foundation for Basic Research (RFBR), together with the administrations and regional governments of the constitutive entities of the Russian Federation, announce regional competitions for grants to be awarded to proposals to conduct fundamental scientific research in the following areas of knowledge:

- 01-mathematics, information science and mechanics;
- 02-physics and astronomy;
- 03-chemistry and studies of materials;
- 04-biology and medical science;
- 05-Earth sciences;
- 06-humanities and social sciences;
- 07-information technologies and computer systems;
- 08-fundamentals of engineering sciences.

Applications (proposals) will be accepted for the following types of competitions: initiative-based research projects, targeted basic research projects, projects for the organization of Russian and international scientific events within the territory of Russia, projects for the development of the material and technical base of scientific research.

The main goal of regional competitions is to consolidate the efforts of RFBR and constitutive entities of the Russian Federation in supporting fundamental research directed at solving problems of especial importance to Russia's regions.

Projects that already received support from RFBR or from other foundations engaged in providing funding for fundamental scientific research in Russia will not be accepted for participation in these regional competitions. Preference will be given to projects submitted from those constituent entities of the Russian Federation that act as organizers of regional competitions. Participation in these competitions, regardless the results thereof, will not disqualify the applicant from participating in other RFBR-organized competitions.

The duration of initiative-based research projects will be one, two or three years; the duration of oriented fundamental research will be not more than two years; projects submitted to take part in the material and technical base competition will be implemented in one year.

Expeditions and field research within the territory of the Russian Federation will be held only as part of initiative-based projects under regional competitions and will be funded from funds allocated for initiative-based projects.

RFBR provides funding to scientific projects on a parity basis – after receipt of documents confirming the payment by a relevant constitutive entity of the Russian Federation of its share of required funds. Project funding will be provided starting in 2008. Projects for developing the material and technical base of scientific research will start in 2007.

A decision to continue funding work under a project for the next year (within the limit of its specified duration) will be made based on an expert review of relevant annual scientific and financial reports.

Application Preparation and Application Submission Due Dates

Applications should be submitted to **regional expert panels** at one of the addresses given below specifying the competition type.

Applications to take part in the above competitions are to be submitted from May 08 until July 05, 2007 inclusively.

Reviewed will be only those applications that are prepared via the Internet utilizing our interactive Grant Express system.

The conditions of RFBR competitions, the RFBR classifier and rules for preparing applications are published in *Poisk* newspaper **No. 25 dated June 23, 2006**, and are also posted on the RFBR website.

The conditions of RFBR competitions, the RFBR classifier and rules for preparing applications are published in Poisk newspaper **No. 6 dated June 23, 2006**, and are also posted on the RFBR website.

The conditions of the competition among proposals to develop the material and technical base of research are published in Poisk newspaper, issue **No. 24 of June 16, 2006** and posted on the RFBR website.

The VOSTOK [EAST] Competition

RFBR, KHABAROVSK KRAY AND THE JEWISH AUTONOMOUS REGION announce a competition for grants to be awarded to proposals to implement initiative-based research projects, projects of targeted fundamental research, projects to organize Russian and international scientific events within the territory of Russia (*project implementation period under the competition is not more than two years*).

Application submission address: 680000, Khabarovsk, ul. Shevchenko, 9, Khabarovsk Science Center, Far Eastern Department, Russian Academy of Sciences. VOSTOK COMPETITION. Contact telephones: (4112) 31-27-63, (4112) 32-74-10.

The POVOLZHIYE Competition

RFBR and the CHUVASH REPUBLIC announce a competition for grants to be awarded to proposals for initiative-based science projects, targeted basic research projects, projects for the organization of Russian and international scientific events within the territory of Russia.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- plant and animal biological protection means;
- agricultural biotechnology (selection, immunology, transgenic technologies);
- synthesis of medical preparations and food supplements;
- ecological biotechnologies;
- energy saving, use of secondary and non-traditional energy resources;
- new generation energy systems, installations for rational use, monitoring and energy resources consumption;
- metals and alloys with special conditions;
- polymers, catalysts, new generation composites, ceramic and glass fiber materials;
- electronics, optoelectronics and optical communications;
- information-telecommunication systems;
- computer modeling;
- research and developments in the area of nanotechnologies, development of nanotechnological production facilities;
- road safety and transport management, logistical systems;
- development of new types of alternative fuels and technologies for the production of such new fuels;
- future technologies and technical solutions for providing ecological safety when using transportation means;
- information integration and systemic support to the lifecycle of products, automatization and management of technological processes and complexes, flexible production systems;
- technologies for deep processing in the light industry;
- special equipment and technologies for the railway and motor transport;
- development and production of medical equipment and materials;
- efficient construction materials and technologies, engineering systems for residential houses, including autonomous life support systems, rapid construction and transformation of houses;
- safety, quality control, deep processing of agricultural raw materials;
- determination of marginal states of bodies and structures in technological processes for materials processing;

- the pressure fall effect during contact friction management;
- optimum distribution of components in composite materials products;
- product strength;
- development and implementation of new methods for the diagnosis, preventative treatment and treatment of human diseases, for raising the adaptive abilities of man to the adverse effects of the environment or habitat;
- new technologies in medicine;
- differential geometry of generalized spaces;
- environment monitoring;
- appraisal, integrated development of mineral deposits and deep processing of raw materials;
- processing and reproduction of forest resources;
- study, preservation and use of the gene pool of plants, animals, bacteria and fish;
- preservation and restoration of landscape- and biodiversity.

The address for submitting applications: 428004, Cheboksary, Prezidentsky blvd., d. 17, Ministry of Education and Youth Policy of the Chuvash Republic. **POVOLZHYIE COMPETITION.** Contact telephones: (8352) 62-06-83, 62-66-98.

RFBR and ULIANOVSKAYA OBLAST announce a competition for grants to be awarded to proposals for initiative-based science projects, targeted basic research projects, projects for the organization of Russian and international scientific events within the territory of Russia.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

Initiative-Based Projects

- mathematical modeling;
- physics and mechanics of modern materials, technological processes, machines and structures;
- non-traditional and sustainable energy;
- medicine and biological sciences;
- agricultural sciences;
- research into the social and economic processes in Ulianovskaya Oblast.

Projects for oriented (targeted) fundamental research

- production technologies;
- new materials, radiation and nanotechnologies;
- technologies of living systems;
- information and information-communication technologies;
- effective and safe development of mineral deposits in Ulianovskaya Oblast;
- ecology and rational nature management in Ulianovskaya Oblast.

The address for submitting applications: 432970, g. Ulianovsk, ul. L. Tolstogo, d. 42, Ulianovsk State University. **POVOLZHIYE COMPETITION.** Contact telephones: (8422) 32-13-30, 41-20-88, 41-64-69.

The SIBERIA Competition

RFBR and ALTAY KRAY announce a competition for grants to be awarded to proposals for initiative-based research projects, projects of targeted basic research, projects for the organization of Russian and international scientific events within the territory of Russia.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- information systems, methods for modeling regional development processes, including those using geo-information technologies;
- energy- and resource saving technologies and materials;
- creation of all-new technologies and materials;

- diagnosis, treatment and preventive treatment of human illnesses;
- effective use of agrarian and recreational resources;
- rational nature use and ensuring ecological safety;
- regional aspects of socio-cultural and economic development.

The address for submitting applications: 656035, Altay Kray, Barnaul, pr. Komsomolsky, d. 118. Altay Kray Administration, Chief Directorate for Economics and Investments. SIBERIA COMPETITION. Contact telephone: (3852) 66-96-39.

RFBR and the REPUBLIC OF KHAKASIA announce a competition for grants to be awarded to proposals for initiative-based research projects, targeted basic research projects, projects for the organization of Russian and international scientific events within the territory of Russia.

Address for submitting applications: 655017, Republic of Khakasia, g. Abakan, ul. Krylova, d. 72 b. SIBERIA COMPETITION. Contact telephones: (3902) 29-52-37, 29-52-14.

The CENTER Competition

RFBR and VLADIMIR OBLAST announce a competition for grants to be awarded to oriented fundamental research projects, projects for the development of the material and technical base of scientific research.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- modeling of socio-economic processes in the region;
- up-to-date systems for control of life cycles and information support of science-intensive production;
- oriented fundamental research on the basis of laser treatment of materials and IPI technologies;
- information system for support of scientific, research-and-production and educational processes in the region;
- monitoring of the environment and forecasting its condition in an industrially developed region using new information technologies.

Address for submitting applications: 600000, Vladimir, ul. Gorkogo, 87. Vladimir State University, Department of Physics and Applied Mathematics. **The CENTER competition. Contact telephones: (4922) 23-50-98, 27-96-21.**

RFBR and VORONEZH OBLAST announce a competition for grants to be awarded to projects of fundamental research into problems of science-intensive industrial technologies in the science-intensive sectors of Voronezh Oblast.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- industry of nano-systems and materials;
- non-traditional power and power saving.
- rational nature management;
- electronic component base;
- new technologies in medicine;
- information technologies;
- technologies of living systems;
- aviation technologies.

Address for submitting applications: 394018, g. Voronezh, pl. im. Lenina, d. 1. Chief Directorate for Industry, Transport, Communications and Innovations of Voronezh Oblast. **CENTER COMPETITION. Contact telephones: (4732) 77-52-08, 55-14-68.**

RFBR and IVANOVO OBLAST announce a competition for grants to be awarded to initiative-based research projects (Projects to be completed within two years; regional funding will be provided starting in 2007).

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- physics and chemistry of liquid-phase and hetero-phase materials;
- scientific fundamentals of developing prospective technologies and new materials;
- scientific fundamentals of developing polymer materials and high-molecular substances;
- research into biologically active compounds, scientific fundamentals of developing new and improving existing materials and medical preparations for various uses;
- ecology and rational nature management, ecologization of the economy of Ivanovo Region, research into ecological safety problems;
- further improvement of production systems, transfer and use of various types of energy;
- physiology, immunology and human ecology under the conditions of Ivanovo Region, new methods for physico-chemical and biophysical monitoring;
- regional information and computation resources and control and management processes;
- social and economic processes in Ivanovo Region;
- safety and quality of agricultural raw materials, food products, improving the quality of life and health of the population.

Address for submitting applications: 153002, Ivanovo, ul. Baturina, 8, k. 10B. Department for Economic Development and Trade, Administration of Ivanovo Oblast. **CENTER COMPETITION. Contact telephone: (4932) 42-33-51.**

RFBR and KOSTROMSKAYA OBLAST announce a competition for grants to be awarded to proposals for initiative-based science projects, targeted fundamental research projects, projects for the organization of Russian and international scientific events within the territory of Russia.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- high-speed electro-chemical and thermal processing of metals and alloys;
- effect of the crystalline structure on the electro-magnetic, optical and acoustic qualities of metals;
- experimental and theoretical research into the nature of a new type discharge process -- a unipolar gas disruption (UGD) non-electrode discharge;
- organization of rare plant communities of forest catenae in the south taiga and sub-taiga sub-zones;
- development of modern methods for modeling and mathematical description of processes for processing of flax in order to develop new technologies ensuring the production of competitive products;
- scientific fundamentals of developing high-efficiency technologies to develop natural resources in energy, production and processing of fiber materials and wood processing taking into account the specifics of the Kostroma region;
- monitoring of the environment and predicting environmental conditions in order to ensure the ecological safety of the region;
- economic system modeling and development of models for stable regional development;
- impact of external fields on the spectra of local centers in anisotropic cubic crystals;
- technical and technological aspects of the metal stretching deformation mechanism;
- interrelation of macro-economic indicators and the comparative dynamics of development of regions;
- theoretical fundamentals behind an integrated model for optimization of the system of management of the region's plant-growing industry whilst utilizing GIS technologies.

Address for submitting applications: 156013, Kostroma, ul. Lenina, d. 20, room 9 or 2. Department of Education and Science, Kostroma Region, CENTER COMPETITION. Contact telephones: Tel: (4942) 31 64 90, tel/fax: (4942) 31 46 00.

RFBR and TULA OBLAST announce a competition of targeted basic research projects.

Main problems, into which it is proposed to conduct scientific research under the competition, are as follows:

- a scientific basis for exploration and development of mineral deposits;
- information-telecommunication resources;
- scientific fundamentals of developing polymer materials and composite compounds;
- a scientific basis for the creation of highly-effective biotechnologies as regards production, processing and storage of agricultural produce;
- development of methods for mathematical modeling and description of different processes and facilities;
- processes for the synthesis and structure formation of multiphase organic systems in deep integrated processing of natural and man-made materials;
- research into the general mechanisms of the functioning and development of machine-building processes;
- research into the properties of various materials.

Address for submitting applications:

300600, Tula, pr. Lenina, d. 92. Tula State University. **CENTER COMPETITION. Contact telephones: (4872) 35-53-58, 35-82-00.**

VOSTOK COMPETITION

RFBR AND FAR-EASTERN DEPARTMENT, RUSSIAN ACADEMY OF SCIENCES announce a competition for grants to be awarded to projects for the development of the material and technical base of scientific research (Projects are to be competed in 2007).

Address for submitting applications: 690950, Vladivostok, ul. Svetlanskaya, 50. Far-Eastern Department, Russian Academy of Sciences **VOSTOK COMPETITION.** Contact telephone: (4232) 26-88-90.