

## **The order of the Chairman of the Government of the Russian Federation**

About the development program of the federal state autonomous educational institution of the higher vocational education « North-Eastern Federal University named after M.K. Ammosov»

### **The order from October 7, 2010 1694-**

According to item 21 of article 10 of the Federal law «About the higher and postgraduate vocational education » to approve enclosed programme\* of the development of the federal state autonomous educational institution of the higher vocational education «North-Eastern Federal University named after M.K. Ammosov» for 2010-2019 years.

Chairman of the Government of the The Russian Federation

V.Putin

### **The development programme FSAED HPE “NEFU named after M.K. Ammosov” for 2010-2019 years**

APPROVED

By The Government Executive Order

Of the Russian Federation

From October 7, 2010 1694-r

## **PROGRAMME**

Of the development of the federal state autonomous educational institution of the higher vocational education «North-Eastern Federal University named after M.K.Ammosov» for **2010 – 2019 years**

### **I. General provisions**

Programme of the development of the federal state autonomous educational institution of the higher vocational education «North-Eastern Federal University named after M.K. Ammosov» (further respectively - the programme, the University) is worked up according to the Decree of the Russian Federation of October 21, 2009 1172 «About the creation of federal universities in North-west, Privolzh, Ural and Far East federal districts». The reorganization of the University is planned by the joining the state educational institution of the higher vocational education “the Sakha State Technical Institute” the state educational institution of the higher vocational education “the Sakha State Pedagogical Academy», the federal state scientific institution «the Institute of the Northern regional economy», the federal state scientific institution «the Institute of Applied Ecology of the North», the federal state scientific institution «the Mathematics Scientific Research Institute at the Yakutsk State University named after M.K.Ammosov» and the federal state scientific institution «Health Institute».

The programme is directed on the solution of the strategic geopolitical state problems, primarily on the innovative development of the North-east of Russia and Far East federal district as a whole. The university activity should promote fastening and attraction of the population to this strategically important region.

Transport, socially-municipal and cultural-educational infrastructure development, Human capital preservation and increment, natural riches development, administrative-social and industrial development of the Siberian and Far East federal districts will be strategically important directions for the strengthening of the general geographical-economic and geopolitical positions of Russia.

The fundamental and applied scientific directions held in high school sector of the educational institutions attached to the university, are closely connected with the topics of the North and Arctic regions, its unique environment, the sustainable development of social sphere, the economics and the industry of the region.

### **II. The strategic goal and the directions of the University development in 2010 - 2019 years**

The University strategic goal is **its recognition as the modern scientifically-educational and cultural center of the Northeast of Russia with the developed innovative, educational-scientific and socially-cultural infrastructure at the Russian and international levels to 2020, realizing qualitative preparation of the highly-skilled personnel, capable to provide the high technology development and modernization of economic branches and region social sphere.**

In order to achieve the strategic target following directions of the University activity, appointed by region development specificity and according to the requirements established by the priority list of science, technology and technics development and the list of critical technologies of the Russian Federation are provided:

- Development of the new quality of the University;
- Supplying of ecological safety and technologically effective reserve replacement, rational natural resources use;
- High technology and manufacture use in the Northern conditions;

- Improvement of life quality in the North;
- Culture preservation and development of the Arctic nations;
- Analytical and personnel support of the innovative social and economic development of the Northeast of Russia.

**Directions of the University development include 18 projects (98 actions).**

Goal results of the University development are cited in the application 1.

The programme actions are grouped according to the supplying tasks of the system complex of the stability and functioning quality of the University.

**Under the direction “Achievement of the University new quality” realizing of the following projects is provided:**

Modernization of the educational process;

Modernization of the scientifically-research process and innovational activity;

Human resources development and formation of quality contingent of the students;

Modernization of the University infrastructure;

Development of the University organization and increasing of the managerial efficiency.

**Within the limits of a direction «Support of ecological safety and technologically effective reproduction of a mineral-raw-material base, rational nature management» is provided realization of following projects:**

Working out of new technologies of search and estimation of precious metals of Russian Northeast and support of prospecting branch with competitive experts;

Creation of the scientifically-educational center of innovative resource-saving geotechnologies for development of cryolitezone minefields of Russian Northeast;

Development scientifically-educational, personnel and technological resources for support of ecological safety of nature management in extreme natural-climatic conditions of Russian Northeast with realization of region development strategic projects.

**There is a creation of complex providing masters` preparation, carrying out of scientific researches and working out of innovations, and also a professional training of the top qualification for following areas of economy:**

Geological prospecting;

Extraction and process industry;

Ecology and natural resources.

Within the limits of a direction «Use of high technologies and manufactures in the Northern conditions» is provided realization of following projects:

Personnel and scientific support for development of a transport complex of Russian Northeast;

Energy- and resource-saving and safety of building and life-support in the north;

High-performance information computation technologies for decision scientific and technical problems of Russian Northeast innovative development;

Personnel and scientific support for development of a chemical-technological complex of processing hydrocarbonic and bioraw materials in the Northeast of Russia.

The diversification of region`s economy and introduction of scientific researches results in form of innovations in its territory demand expansion of processing manufactures, development of infrastructural branches of economy and incubating hi-tech industrial projects which can become a basis of the high technology sector of the Northern economy.

Given direction includes scientifically-educational and innovative activity in the field of transport, communications, energetic and building.

**Creation of high-end positions of the University and entering of the developed technologies into region economy is provided in following directions:**

Production, transportation, processing of hydrocarbon and natural raw materials –modern technology adoption of oil refining, gas and bioraw materials for development of a chemical-technological complex in the Northeast of Russia;

Reliability creation and life time support of automotive equipment in the North conditions;

Stabilization and safety control of buildings and constructions on frost soil in the climate changing and seismic activity conditions;

New biotechnologies adoption for use of unique natural Arctic bioraw materials in pharmaceuticals, the food-processing industry and agriculture;

Technology development and adoption for creation of cold-resistant polymeric composites for antifrictional and packing appointments;

High-efficiency computing technologies development and adoption for the decision of actual problem solving of innovative development in the Northeast of Russia.

**The direction of «Improvement of life quality in the North» is presented by the project of «Medical technologies development and adoption providing improvement of life quality among the North population».**

Northern climate and environment determine fine essential specificity at the social organization and such socially significant areas of society life, as public health, education and services.

It is necessary to develop professional training system, and also scientific, scientific-methodological and innovative activities for providing of high life standards in the North.

In this direction the University activity includes a professional training in following areas:

Public health services and formation of healthy life of the population;

Social and healthy technologies of life provision in the North.

**The special attention will be given to following directions of scientifically-educational and innovative activity:**

Arctic medicine development—staging of fundamental and applied researches in Arctic medicine with the further introduction of genetic diagnostics methods and biotechnologies, studying of disease clinical features, genetic disposition to various diseases among the population in the North-east of Russia and principles of their treatment. Innovative medical technologies on the most widespread diseases in the North will be developed and introduced

Accessible and effective methods of the telemedicine and remote education with their implementation to the practical public health services;

Rendering of the adaptive-recreational and rehabilitational help in the North conditions;

Development and introduction of social and economic specifications and the life quality standards for the population in the region;

Informational support of socially important services and technologies in the North.

**Under the auspices of the programme «Culture preservation and development among the Arctic nations» is provided realization of following projects:**

Preservation and development of languages and culture of the people of the Northeast of Russia;

Formation of up-to-date practice for interdisciplinary humanitarian researches and creation of the cultural-educational environment for Arctic circum-polar territories;

Creation and development of the scientific-research institute "Olonkho".

This direction is top-priority in social-cultural region development and includes research and educational activity in history and culture, multilingual polycultural education, social engineering and the cultural policy.

Under the auspices of the programme «Analytical and personnel support of innovative social and economic development of the Northeast of Russia» realization of following projects is provided:

Scientifically-analytical, consulting and personnel support of the innovative social and economic development of the Northeast of Russia;

Creation of Arctic innovative center and formation of a complete «innovative chain».

As a result of realization of this direction functioning of actual systems will be provided:

Continuous education, including the accelerated training, retraining and development of the personnel of enterprises and organizations, workers of local governments using informational-communicational technologies;

Data gathering of the analytical and sociological information providing social and economic monitoring;

State services supply with the use of Internet;

Information sharing of the population on region activities of daily living;

Systematization and introduction of pupils, students and youth to cultural heritage.

Development and accepting of strategy and region plan of expansion will demand constant analytical support of corresponding actions.

The analytical center based on the University is supposed to create for this purpose, the basic directions of its activity should be:

-the analysis and forecasting of factors and indicators of the region social and economic development, analytical support of acceptance of administrative decisions for public authorities and municipal unions, social and economic examination of program projects, acts and budget forecasts;

Consulting support of megaprojects of the social and economic development of the Northeast of Russia;

Informational-consulting support of the field networks development, territorial and production clusters and regional infrastructure with account of essential influence of regional conditions.

### **III. Resource supplement of the program**

Financial estimation of expenses for program realization

From 2010 to 2019 there are no expenses to be spent on current functioning of the University and it assumes to appoint financing volumes (on development stages) at a rate of 9197 million roubles, including at the expense of the federal budget - 5000 million roubles, at the expense of off-budget sources - 4197 million roubles.

Amount of finances for the program on 2010-19 are presented in the application 2.

### **IV. Stages of programme realization**

The program plans to be realized by holding actions connected on terms, resources and results in 3 stages:

I stage - 2010 - 2011;

II stage - 2012 - 2014;

III stage - 2015 - 2019.

Stages of programme realization are presented in the application 3.

The primary aim of the 1st stage –handling of reorganization, creation of strategic planning system and monitoring of development as the base of dynamical development of the University.

The primary aim of the 2nd stage –The formation of the University as one of the Russian education leaders: realization of researches and innovative workings out of the all-Russian and world levels, entering the list of the first 180 universities under the rating of Reiter's agency.

The primary aim of the 3rd stage is a way out the high-end positions in the Russian and world scientifically-educational space, entering the list of the first 100 universities under the rating of Reiter's agency, entering the rating of the Shanghai University.

### **V. Expected results of the programme realization**

The university will provide the formation of personnel and scientifically-innovative potential for the complex social and economic development of the Northeast of Russia and become the scientifically-innovative center providing a high level of education, research and technological workings in region.