

Northern (Arctic) Federal University

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NArFU Arctic-Focused Strategy



NArFU, Arkhangelsk



NORTHERN
ARCTIC
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UNIVERSITY

NArFU Research Priority Areas in Compliance with the Russian Arctic Strategy

High-technological science intensive
productions

Infrastructure of the Russian
European North and the Arctic

Complex use of bio-resources

Social sphere and human resources
of the Russian North

Environmental protection

Polar medicine and health care



NArFU in Figures (2014)

Total number of students	Over 19 000
Academic and administrative staff	Over 4 000
Institutes	15
Colleges	3
Branches	3
Programs, total	349
Specialty / Bachelor / Master / PhD	149 / 137 / 63 / 56
International degree programs / English taught courses	8 / 58
International students	300 / 45 countries





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NArFU Institutes



**Institute of
Construction and
Architecture**

**Institute of Energy
and Transport**

**Forestry
Engineering
Institute**

**Institute of Oil and
Gas**

**Higher School of
Economics and
Management**

**Institute of
Mathematics,
Information and
Space Technologies**

**Institute of Natural
Sciences and
Technologies**

**Institute of
Philology and
Cross-Cultural
Communication**

**Institute of
Humanities, Social
and Political
Sciences**

Law Institute

**Institute of Physical
Education, Sport
and Health**

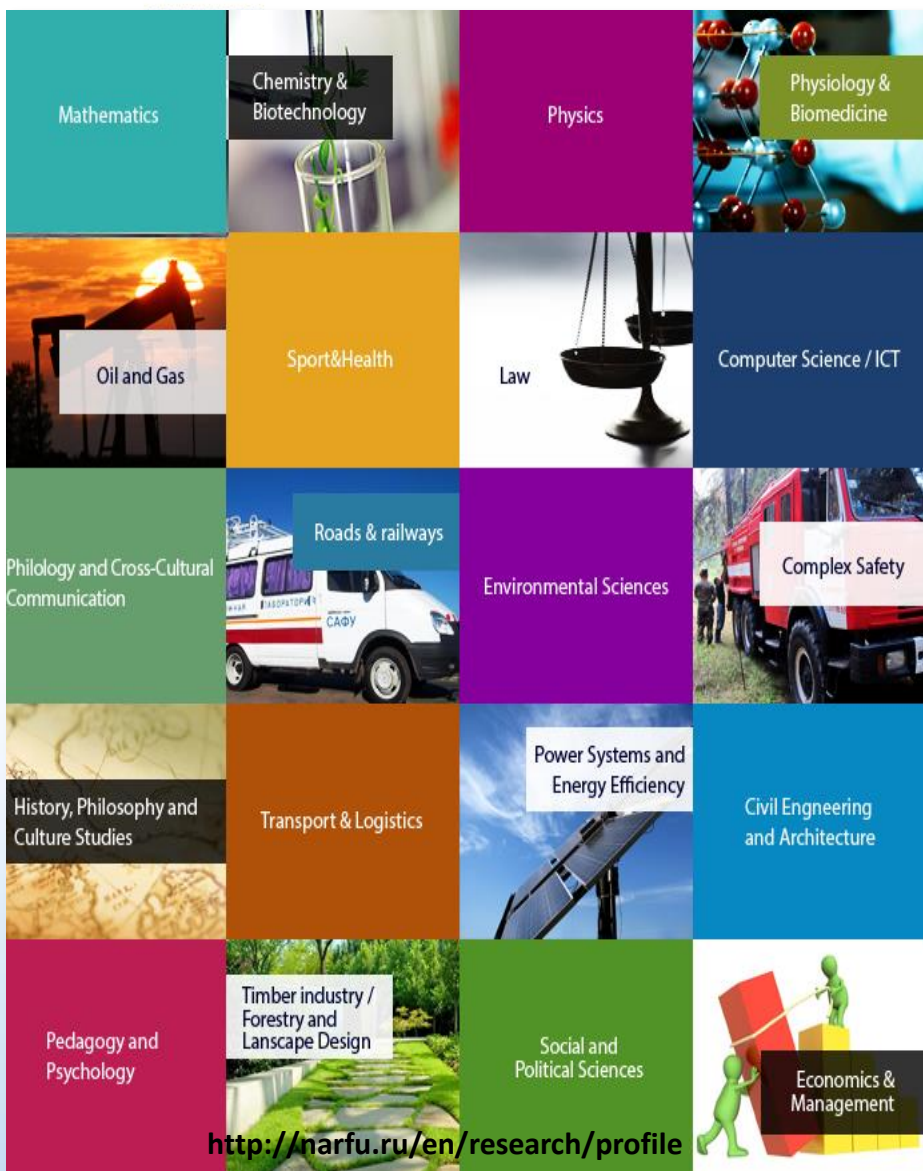
**Institute of
Pedagogics and
Psychology**

**Integrated Safety
Institute**

**Humanitarian
Institute
(Severodvinsk)**

**Institute of
Shipbuilding and
Arctic Marine
Engineering
(Severodvinsk)**

NArFU Priority Research Areas



<http://narfu.ru/en/research/profile>

Natural resources management, environmental protection and climate change

Biotechnology

Transport and logistics in the Arctic

Shipbuilding and marine engineering

Energy efficiency and renewable resources development

Cold climate technologies in construction

Emergency response in the Arctic

Space monitoring

Humanities and life quality in the North

Polar medicine

NArFU Research Infrastructure



Center of Research Equipment for Collective Use Arktika

Center of the Arctic Remote Sensing

Center of Medico-Biological Research Equipment ArktikMed

Center for Innovation “Modern Technologies for Northern Bio-resources Processing”

Center for Innovation “Arctic Oil and Gas Laboratory Research”

Patenting and Intellectual Property Protection Centre

Technology Transfer and Cluster Development Center

Technical Cluster in Severodvinsk

11 Research and Education Centers

Arctic Focused Educational Programmes



Building engineering in a cold climate environment

Environmental management

Maritime oil and gas constructions

Ecological monitoring and environmental safety

Industrial biotechnology and bioengineering

Shipbuilding

Ship power plants

Industrial economics

Hydrometeorology

IT for analysis of remote-sensing data on ice moving

Information and space systems for ecological management

Applied geology

Medicine biophysics

Nuclear physics and technologies



Professional Retraining Programs for Regional Business

Nuclear and radiation safety of nuclear ships during service life

Energy efficiency

Management of shipbuilding objects service life (CALS technologies)

Oil spill prevention and response

Adaptation of shift personnel in extreme conditions

Arctic focus: NArFU development strategy

Arkhangelsk region perspectives: strategy and resources for development



Presidential Program for Retraining Engineers

Program consumers: big regional enterprises (shipbuilding, machinery, logistics, mining, forestry, etc.)

Joint Programmes with Russian Federal Universities



Mathematical Modeling (Ma)

**Literature and Culture of the Russian
macro-regions (Ma)**

Human and Animal Physiology (Ma)

Strategic Management (Ma)

**Psychological and pedagogical support of
pre-school education (Ma)**

Physics of Condensed Matter (Ma)

**Advertising and Public Relations
construction (Ba)**

Land Registry (Ba)



NArFU – International University

More than 100 partners from 27 countries

5 international network consortia

Chairing the BEAC Joint Working Group
on Education and Research

University of the Arctic membership

More than 70 large-scope international
projects with 50 partner organizations

8 international joint degree programs

International academic mobility: over 400
students and 300 lecturers and researchers
annually

300 foreign students from 45 countries

107 foreign lecturers



NArFU Strategies of Regional Cooperation



Barents Euro-Arctic Region

Cooperation with the universities of North-West Russia, Northern Norway, Finland, Sweden

- BEAC Joint Working Group on Education and Research;
- Russian-Norwegian Intergovernmental Working Group on Education;
- Russian-Norwegian Intergovernmental Working Group on Science and Technology
- Russian-Finnish Intergovernmental Working Group on Education and Research

Circumpolar cooperation

Cooperation with universities and organizations from the Arctic countries

- The University of the Arctic;
- Bilateral cooperation with Canada and the USA;
- Cooperation with the Working Groups of the Arctic Council;
- Floating University Project;
- Russian-Canadian Intergovernmental Economic Commission / Arctic and North Working Group

European Union

Joint research and educational projects, academic mobility development

- Kolarctic ENPI CBC, Tempus, Erasmus Mundus/Erasmus+, Seventh Framework, Horizon 2020 Program, DAAD, VISBY)
- Northern Dimension Institute

NArFU Academic Partners



Armenia

- National Academy of Sciences of Armenia
- Yerevan State Linguistic University

Belgium

- University of Leuven

Belarus

- Belarusian State Technological University

Canada

- Memorial University of Newfoundland
- University of Manitoba
- University of Saskatchewan
- University of Regina

China

- Zhengzhou University
- Chengdu University of Technology

Finland

- University of Lapland
- University of Oulu
- University of Turku
- University of Eastern Finland
- Center for International Mobility
- Lapland University of Applied Sciences Ltd
- Technical Research Center of Finland (VTT)

France

- University of Upper Alsace

Germany

- University of Hamburg
- University of Applied Sciences Emden-Leer
- German Academic Exchange Service

India

- Indian Institute of Technology Madras

Latvia

- Transport and Communications Institute

Norway

- The High North Center for Business and Governance
- University of Oslo
- University of Agder
- The Arctic University of Norway (The University of Tromsø)

- University of Nordland
- University of Stavanger
- Norwegian Centre for International Cooperation in Education
- Narvik University College
- North Trondelag University College
- Harstad University College
- NOFIMA
- The University Center in Svalbard

Poland

- Adam Mickiewicz University
- Pomeranian Academy in Slupsk

Serbia

- University of Novi Sad

Slovakia

- St Cyril and Methodius University in Trnava

South Korea

- Sungkyunkwan University

Sweden

- University of Umea
- University of Mälardalen

Ukraine

- Sukhomlinsky National University of Mykolayiv
- National Forest Engineering University of Ukraine
- Berdyansk University of Management and Business

USA

- University of Alaska Fairbanks
- Humboldt State University
- University of North Carolina at Chapel Hill
- Dartmouth College



UiT / THE ARCTIC UNIVERSITY OF NORWAY





NArFU in Decision-Making

INTERNATIONAL LEVEL

**BEAC Joint Working Group on Education
and Research**

The University of the Arctic

Northern Dimension Institute

INTERNATIONAL INTERGOVERNMENTAL LEVEL

**Intergovernmental Russian-Canadian
Economic Commission / WG on the Arctic
and the North**

**Intergovernmental Russian-Norwegian
Commission on Economic, Industrial and
Scientific Cooperation/ WG on Shipbuilding /
WG on Interregional and Cross-Border
Cooperation**

**Intergovernmental Russian-Norwegian
Working Group on Education**

**Intergovernmental Russian-Finnish
Commission on Education and Research**

**Intergovernmental Russian-Finnish Commission
on Economic Cooperation**

FEDERAL LEVEL

Russian International Affairs Council

**Expert Council on the Arctic and the Antarctic
headed by the Chair of the RF Council**

**Expert board on Education and Research by
the RF President**

**Expert Board on the RF Arctic Strategy
Implementation**

MFA / ROSSOTRUDNICHESTVO

Federal Migration Agency



The University of the Arctic

Over 170 members from eight Arctic countries and associated members from non-Arctic countries

Goal: creation of a strong, sustainable circumpolar region by means of enhancement of the capabilities of the Northern population through education, mobility and consolidated knowledge

NArFU at UArctic

- UArctic Research Office at NArFU since 2011
- UArctic Administration (Governance, Board of Governors)
- Joint program Bachelor of Circumpolar Sciences
- International Program «Diverse Arctic: Local Challenges – Global Changes»
- UArctic Thematic Networks



The University of the Arctic: joint capacity development



- **June 2013**, VII UArctic Rectors' Forum and Students' Forum, representatives of 30 higher education institutions from 8 countries
- **February 2014** , International Winter School Model Arctic Council
- **March 2014**, International Workshop Development of an Online Natural Hazards Course
- **October 2015**, International Workshop Promotion and Northern Universities and Academic Programmes Marketing
- **2015**, Organization of the III Conference on Arctic Research Planning (ICARP III, Japan)

International Educational Programs



Program	Level	Partners
Information technologies in medicine and social sphere	Ma 120 ECTS	BCBU: Oulu University (Finland), Luleå Technical University (Sweden)
Comparative Social Work	Ma 120 ECTS	BCBU: Lapland University (Finland)
Environmental Engineering	Ba 120 ECTS	BCBU: Oulu University (Finland)
Circumpolar Health and Wellbeing	Ma 120 ECTS	BCBU: Oulu University (Finland)
Bachelor of Circumpolar Studies	Ba 180 ECTS	UArctic: Nordland University (Norway)
Russian Studies	Ma 30 ECTS 1 semester	Arctic University of Norway – University of Tromsø (Norway)
Travel and Tourism Management	Ba 60 ECTS 1-2 years	Kemi-Tornio University of Applied Sciences (Finland), Harstad University College (Norway)
Comparative Literature Studies: Russian – French Literary Relations	Ma 120 ECTS	Haute Alsace University (France)
Management of Ecological Risks in the Arctic	Ma 120 ECTS	Arctic University of Norway – University of Tromsø (Norway)

58 courses in English available for all international students



International Academic Mobility

2013:

- **484** NArFU students and **304** faculty staff participated in outgoing international academic mobility programs
- **200** incoming students
- **107** foreign visiting professors from **14** countries (2012)

Funding Tools

**North-to-North
(UArctic)**

**Erasmus
Mundus
(EU)**

**Barents plus
(BEAR)**

**Norwegian
government
programs**

**Fulbright
(USA)**

**FIRST
(Finland)**

**DAAD
(Germany)**

**Swedish
Institute,
VISBY
program**

**Bilateral
programs**

**Scholarships
granted by
enterprises**

**International
projects**

**NArFU
Development
Program**



NArFU Main International Projects

Kolarctic ENPI CBC

- **BART / Private-Public Partnership in Barents-Tourism**
- **BCBU+ / Barents Cross-Border University Development Project**
- **KITENPI / KOLARCTIC IT: Education, Networking, Partnership, Innovations**
- **CETIA / Education, Networking, Partnership, Innovations**
- **ArctiChildren InNet: Empowering School e-Health Model in the Barents Region**
- **School for All - Development of Inclusive Education**

EU 7th Framework Program

- **HEROMAT: Protection of cultural heritage objects by development and use of upgraded multifunctional materials (*partner: University of the West of Scotland, EURA Conservation, Ltd.*)**

Tempus

- **ELFRUS: Elaboration of qualification framework for land management at Russian universities**
- **ALIGN_QF: Achieving and checking the alignment between academic programmes and qualification frameworks**
- **ALLMEET: Actions of Lifelong Learning addressing multicultural education and tolerance in Russia (*Partner: University of Glasgow*)**

Erasmus Mundus

- **AURORA – Towards Modern and Innovative Higher Education**
- **AURORA II– Towards Modern and Innovative Higher Education**

Nordic Council of Ministers

- **Water Management and Climate Change – Common Challenges, Common Decisions**
- **Nordic – Russian Green Growth Arena**
- **Renewable Energy in North-West Russia**
- **Development of Creative Industries in the North**

Arctic Floating University Project



Academic course for undergraduate and postgraduate students by the method of intensive inclusion of students in the scientific-educational process

Research: organization and implementation of a comprehensive monitoring of the Arctic environment and study of the natural processes of the Arctic in the conditions of the global climate change



1-25 August, 2014: International Arctic research expedition for young researchers from the Arctic countries (*under the auspices of the Arctic Council*)

Join Arctic Floating University 2015 !





NArFU as an Arena for International Research Events

- **September 2012** – Conference "The History of the Arctic Exploration – from the Past to the Future"
- **January 2013** – University of the Arctic Thematic Networks Meeting
- **March 2013** – Conference "Innovations in Education, Research and Business: Norwegian and Russian perspectives" (Bodø, Norway)
- **September 2013** – Conference with International Participation "Space Technologies Application for Arctic Regions Development"
- **March 2014** – Natural Hazards Workshop "Developing e-course for the University of the Arctic"
- **August 2014** – IV International Arctic Council Session in Naryn-Mar: International Conference and Exhibition "Current Challenges of Sustainable Development and Security in the Arctic", rescue trainings (*under the auspices of the RF Security Council*)
- **September 2014** – International Workshop "Biotechnologies in Timber Complex"
- **September 2014** – International Conference "Ecological Condition of the Arctic Seas and Coastal Areas in the Context of Global Climate Change"



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Thank you for attention!

www.narfu.ru

