

COMPETITION DOCUMENTATION

**regulating terms and conditions of the open international grant
competition of National University of Science and Technology «MISiS»
designed to invite Leading scientists for short term joined research
projects (the second wave)**

MOSCOW, 2017

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INFORMATION ABOUT THE GRANT COMPETITION

1. General provisions

- 1.1. The purpose of this grant competition is to identify, in compliance with approved procedures and regulations, the best research project proposal (proposals) submitted by an applicant (applicants) seeking support in the form of a grant of the National University of Science and Technology «MISiS» (NUST «MISiS»).
- 1.2. Grants of NUST «MISiS» are made available to invite a Leading scientist to conduct short-term joint research projects over a period of 0.5 to 4 months in the amount of 0.2 to 1.6 million rubles (*calculated in proportion* 0.5 months – of 0.2 million rubles) each during one calendar year (01.10.2017 - 30.09.2018)
- 1.3. Each competition winner will sign a grant agreement with NUST «MISiS».
- 1.4. The legal relationships between all parties involved in the open grant competition are regulated by applicable laws of the Russian Federation.

2. Participation eligibility requirements

- 2.1. Research teams in collaboration with leading Russian or foreign scientists that are recognized by the global scientific community as authoritative and influential leaders within their respective fields of science and research areas that designed and submitted their grant applications in compliance with cl. 5.1 to 5.4 of the Competition Documentation are deemed as a single applicant.
- 2.2. A Leading scientist may take part in one research project only.

3. Research project and research project implementation requirements

- 3.1. Any research projects proposed hereunder may not duplicate any prior or current research projects financially supported by different level budgets of the Russian Federation or funded from other sources.
- 3.2. NUST «MISiS» will make its grants available to support successful research projects proposed for implementation within the following STRATEGIC ACADEMIC UNITS:

- **Meta-materials and post-silicone electronics**
- **Autonomous energy and energy efficiency**
- **Materials and technologies for improving human lifespan and overall quality of life**
- **Industrial design and engineering technologies to reindustrialize the economy**
- **Green technologies for efficient resource use**

- 3.3. Research team shall invite a Leading scientist to implement a research project at NUST «MISiS», followed by a new educational course of lectures and of joint articles.
- 3.4. Pursuant to the terms and conditions of the open grant competition, to implement the project the Leading scientist shall be available at NUST «MISiS» for direct supervision of the research project in collaboration with the research team at least:

- **From 0.5 to 4 months in the period from 01.10.2017 to 30.09.2018 (obligatory presence in 2017)**

- 3.5. Direct supervision by the leading scientist in collaboration with the research team of the research project

- 3.6. NUST «MISiS» shall undertake to:

- a) Ensure funding of the research project in compliance with its approved budget;
- b) Provide office space and access to experimental research facilities required to implement successful research projects proposed hereunder;
- c) Execute labor or civil law agreements with the Leading scientist;

- 3.7. Leading scientist shall supervise the scientific research in collaboration with the research team during the entire duration of the project.
- 3.8. Leading scientist shall appoint responsible deputy of the Leading scientist, who will be in charge of administrative supervision of the research team and make organizational decisions during the absence of the Leading scientist.
- 3.9. The Leading scientist undertakes an obligation as a research outcome to publish at least 1 article in 2017 and at least 1 article in 2018 on the research matter in the peer review journals referenced in the «Web of Science» with impact factor in the first quartile in the field of the research subject to 2 months of personal attendance at NUST MISiS. In case personal attendance period exceeds 2 month, the quantity of articles shall increase in proportionally (1 month- 1 article) during period from 01.10.2017 to 30.09.2018.
- 3.10. The Leading Scientist undertakes an obligation as a research outcome to create a new lecture course in the research field.
- 3.11. The Leading scientist undertakes an obligation as a research outcome to popularize the scientific research field in the form of oral reports at international conferences and events as well as other external mass media forms.
- 3.12. The Leading scientists and research team shall be personally responsible for achieving the research project results specified in their project proposals and accounted for by their respective grant agreements with NUST «MISiS».

4. Grant competition participation costs

- 4.1. Applicants are responsible for covering all costs incurred thereby in connection with their participation in the open grant competition, including their costs associated with preparation and submission of their grant applications.

5. Grant application contents

5.1. Preliminary application registration

Form A. «Application Registration» – to be filled in advance and mailed to projects@misis.ru for obtaining registration number;

5.2. A grant application must contain the following:

- Form 1. «Document Checklist», listing all documents submitted as part of the grant application;
- Form 2. «Grant Application»;

5.3. Documents to be submitted by the Leading scientist:

- Form 3. «Leading scientist's questionnaire»;
- Form 4. «Leading scientist's work experience and research achievements»;

5.4. Documents pertaining to the proposed research project:

- Form 5. «Overview of the research team»;
- Form 6. «Research Project Description»;

- Form 7. «Project Efficiency Indicators»;
- Form 8. «Research Project Implementation Plan»;
- Form 9. «Research Project Budget».
- Appendix
- Copies of the pages of the Leading scientist's passport containing the Leading scientist's full name and place of residence information;

6. Preparing a grant application

- 6.1. For NUST “MISiS” grant competition the research team in collaboration with the Leading scientist shall submit their joint application in compliance with evaluation criteria for grant application. Those willing to take part in the grant competition shall prepare and submit their grant applications in electronic format and hardcopy.
- 6.2. Form A. «Application Registration» shall be filled and mailed to projects@misis.ru . In reply letter registration number will be sent. The registration number shall be specified in Form 1 «Documents checklist» and on the envelope with the grant application.
- 6.3. Grant applications may be submitted in Russian and in English. Grant applications submitted in any other languages will be disqualified by the Competition Commission as failing to meet the competition requirements.

If any documents that are part of a grant application package are in languages other than Russian or English, they must be accompanied by certified translations into Russian and English.

- 6.4. The amount of funding requested by applicants in their grant applications must be specified in Russian rubles and may not exceed the maximum grant amount that may be made available under a grant agreement.
- 6.5.6.5. All grant application documents shall be signed by the Leading scientist if applicable. Facsimile images of relevant signatures may not be used to sign the grant application documents.
- 6.6. Contradictions and inconsistencies identified in grant application documents will be viewed by the Commission as the applicant's failure to meet the selection requirements accounted for by the Competition Documentation. Grant applications submitted without the documents accounted for by cl. 5.1 to 5.4 of the Competition Documentation, grant applications documented in violation of requirements accounted for by the grant application form, as well as grant applications that fail to provide the requisite data accounted for by the grant application form will be deemed by the Competition Commission as non-compliant with relevant requirements of the Competition Documentation.
- 6.7. All grant application documents must be arranged in the order accounted for by Form 1. «Document checklist».
- 6.8. All pages of a grant application must be numbered and bound with a band or durable string whose ends must be tied up on the reverse side of the last page. and the number of bound pages shall be specified
- 6.9. Electronic copy shall be submitted on a CD and shall contain the following files:
- Application in Russian in Word;
 - Application in English in Word;
 - Application in Russian in pdf;
 - Application in English in pdf;
 - Appendix (passport copy, residence permit copy (if applicable), diploma copy, PhD

certificate copy, CV, copies of other diplomas and certificates, etc).

The CD shall obligatory carry the Registration number.

7. Submitting a grant application

- 7.1. Applicants must submit hardcopy in a sealed envelope containing a signed CD containing the grant application files in compliance with cl. 6.9. Applicants must ensure that the electronic and hardcopy versions of their grant applications are identical.
- 7.2. Each applicant must label the envelope containing his/her grant application as follows: «Application for participation in the open international grant competition of NUST «MISiS» to invite world's Leading scientists for short term joined research projects» as well as registration number.
- 7.3. Each envelope containing a grant application must be sealed in such a fashion as to prevent its opening without undermining its integrity. If an envelope containing a grant application is not sealed or labeled in full compliance with the requirements hereof, the Department of Science shall not be liable to the applicant if his/her grant application documents go missing or if the envelope containing his/her grant application is not open in a timely fashion.
- 7.4. Envelopes with grant applications shall be submitted to the address of the grant competition organizer 119049 NUST «MISiS», room B-520, 5th floor, Leninsky prospect, 4 Moscow (International Research Projects Department, code №431) in the **period from August 24, 2017 to September 25, 2017** (12:00 Moscow time).
- 7.5. Each envelope containing a grant application will be registered in the grant applications registry.
- 7.6. The registrar will issue a receipt stating the date and time of delivery and the registration number of the grant application received thereby if requested by an applicant, having provided the envelope with the application.

8. Opening the envelopes containing grant applications

- 8.1. The envelopes containing grant applications will be opened by the Competition Commission publicly on the day and at the time and place specified in the Competition Announcement.
- 8.2. Any grant applications received by the competition organizer after the grant application submission deadline will be disqualified from participation in the open grant competition.
- 8.3. The envelopes opening procedure shall be documented in the form of minutes to be signed by all members of the Competition Commission present at the envelope opening procedure. The minutes shall be posted on the official website of NUST «MISiS» Internet science portal within three working days of being signed.

9. Reviewing grant applications

- 9.1. Within 10 working days following the opening of the envelopes containing grant applications the Competition Commission will review the documents and information contained therein on account of:
 - a) Compliance of the grant applications with the selection requirements established by the Council;
 - b) Compliance of the applicants with the participation qualification requirements accounted for by the Competition Documentation;
 - c) Compliance of the grant applications with the requirements accounted for by the Competition Documentation;
 - d) Compliance of the proposed research projects seeking financial support with relevant requirements accounted for by the Competition Documentation.

9.2. Following the examination of the reviewed documents and information contained in the grant applications the Competition Commission shall make a conclusion on:

- a) The applicants whose grant applications and research project proposals meet the eligibility and selection requirements accounted for by the Competition Documentation;
- b) The applicants, who do not meet and/or whose grant applications and/or research project proposals do not meet the eligibility and selection requirements accounted for by the Competition Documentation.

9.3. The review results shall be documented in the form of minutes to be signed by all members of the Competition Commission present at review procedure. The minutes shall be posted on the official website of NUST «MISiS» Internet science portal within three working days of being signed.

10. Evaluating grant applications

10.1. The Competition Commission shall undertake assessment of the submitted documents to be in compliance with all the Competition Documentation requirements.

10.2. The grant applications deemed by the Competition Commission to be in compliance with all applicable requirements will be forwarded for the grant competition.

10.3. The following evaluation criteria will be used to assess the grant applications and research project proposals submitted to the open grant competition:

No.	Assessment criterion	Criteria content	Group weight	Weight of criterion within group	Maximum score
1. Leading scientist's scientific achievements					
1.1	Level of scientific publications	To be assessed: types of journals (professional, learned) and number of articles published by the Leading scientist; how typical this type of publication activity is for leading researchers; Leading scientist's quotation index within his/her the field of science.	40%	70%	30
1.2	Leading scientist's experience and prospects in training research and academic staff	To be assessed: how sufficient the Leading scientist's experience in training research and academic staff is.		30%	10
2. Research project vision					

2.1	Relevance of proposed scientific research	To be assessed: relevance of the proposed research project from the point of view of the current status of global science; likelihood of achieving breakthrough world-class research results and their relevance in terms of global science and economy.	40%	50%	20
2.2	Applicant's ability to achieve the anticipated project results within the suggested timeframe and using the methods proposed thereby	To be assessed: how detailed the anticipated research project results are and if they meet the world-class research requirements; how detailed and viable the research project implementation plan is; how likely the applicant is to implement the research project plan within the suggested timeframe and using the methods proposed thereby.		50%	20
3. Overview of the research team					
3.1	Publications of the research project staff members	To be assessed: number of articles, monographs, and conference reports published by the project staff members within the past three years, the level of the journals, publishers, and conference; number and level of journal articles indexed in the «Web of Science» or Scopus; number of articles intended for publication in journals within the next two years that have been indexed in the «Web of Science» or Scopus.	20%	50%	10
3.2	Research infrastructure available to the research project staff members	To be assessed: how modern and sophisticated the host organization's research infrastructure available to the project staff members is; the infrastructure's ability to facilitate world-class research activities; the host organization's capacity to upgrade the infrastructure required for the research project in question.		50%	10

10.4. The grant applications received by the Competition Commission will be distributed among expert groups for the purposes of assessment. The Competition Commission shall distribute the grant applications ensuring that intellectual activity information from the grant applications is treated in a confidential manner. All expert evaluation statements will be forwarded by the Competition Commission to the Council, established by Order № 513, dated 31.12.2013, to decide competition winners.

10.5. The Council will review the expert assessment statements and identify the competition winners by September 30, 2017.

10.6. Information about the outcomes of the open grant competition shall be posted on the official website of NUST "MISiS" Internet science portal within three working days of the

Council meeting minutes being signed.

11. Executing a grant agreement

11.1. The competition winners will execute grant agreements with NUST «MISiS» within 30 working days after posting the results of the open grant competition on the official website of Internet science portal.

12. Returning grant applications

12.1. The grant applications (including grant application documents) are not returned to the applicants except for the grant applications recalled by applicants in compliance with the established procedure.

FORMS TO BE COMPLETED BY APPLICANTS

Form 1. Document checklist

DOCUMENT CHECKLIST

List of documents required for submission to the open International grant competition of NUST «MISiS» designed to invite world's Leading scientists for short term joined research projects (the second wave)

Grant application registration number _____

No.	Name of document	Page numbers (from to)	Number of pages
1.	Form 1. «Document Checklist»		
2.	Form 2. «Grant application»		
	Documents to be submitted by the Leading scientist:		
3	Form 3. «Leading scientist's Questionnaire»		
4.	Form 4. «Leading scientist's work experience and research achievements»		
5.	Form 5. «Overview of research team»		
	Documents pertaining to the research project proposed hereunder:		
6.	Form 6. «Research Project Description»		
7.	Form 7. «Project Efficiency Indicators»		
8.	Form 8. «Research Project Implementation Plan»		
9.	Form 9. «Research Project Budget»		
10.	Appendix		
11.	Copies of the Leading scientist's passport containing his/her full name and place of residence		

Leading scientist _____

Leading scientist's signature Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS» _____

Leading scientist's signature Leading scientist's surname, first name, patronymic

Form 2. Grant Application

APPLICATION

for participation in the open international competition for grant of NUST «MISiS» designed to invite Leading scientists for short term joined research projects

_____ (full name of the Leading scientist)

hereinafter referred to as «Leading scientist»,

submits herewith their joint application for participation in the grant competition of the NUST «MISiS» designed to invite world's Leading scientists for short term joined research projects.

1. Information about the research project

1.1. STRATEGIC ACADEMIC UNITS (choose one field of science)

<input type="checkbox"/>	Meta-materials and post-silicone electronics (<i>including IT direction</i>)
<input type="checkbox"/>	Autonomous energy and energy efficiency (<i>including IT direction</i>)
<input type="checkbox"/>	Materials and technologies for improving human lifespan and overall quality of life (<i>including IT direction</i>)
<input type="checkbox"/>	Industrial design and engineering technologies to reindustrialise the economy(<i>including IT direction</i>)
<input type="checkbox"/>	Green technologies for efficient resource use(<i>including IT direction</i>)

1.2. Research area (max five areas according to Appendix №1) _____

Project Title _____

2. Grant amount requested to support research projects implemented at NUST «MISiS» under the supervision of the Leading scientists¹:

in 2017 _____ mln Rub,

in 2018 _____ mln Rub,

Total _____ mln Rub

3. The Leading scientist confirms herewith that:

- He/she has not applied to any other grant competition of NUST «MISiS» designed to support research projects
- The research project proposed herein does not duplicate any of his/her prior or current

¹ The sum is calculated proportionally 0.5 month equals 0.2 mln Rub

research projects financially supported by different budget levels of the Russian Federation or funded from other sources.

4. *If his/her grant application is decided a winner, the Leading scientist undertakes the following commitments:*

- Execute, within the designated timeframe, a grant agreement;
- Hire research team members, including at least two members with doctoral degree, at least three postgraduate students, and at least three undergraduate students of NUST «MISiS»;
- Pursuant to the terms and conditions of the open grant competition, to implement the project the Leading scientist shall be available from 01.10.2017 to 31.09.2018 at NUST «MISiS» for direct supervision of the research project at least:
_____ **months from 01.10.2017 to 30.09.2018 , in particular:**
 - _____ **months (in total) in 2017;**
 - _____ **months (in total) in 2018.**
- The Leading scientist undertakes an obligation as a research outcome to publish at least 1 article in 2017, at least 1 articles in 2018 on the research matter in the peer review journals referenced in the «Web of Science» with impact factor in the first quartile in the field of the research subject to 2 months of personal attendance at NUST MISiS. In case personal attendance period exceeds 2 month, the quantity of articles shall increase in proportionally (1 month- 1 article) during period from 01.10.2017 to 30.09.2018.
- Submit an research project progress report documented in compliance with the form approved by NUST «MISiS».

5. *The Leading scientist shall be personally responsible for achieving the research project results specified in the project proposal and grant application.*

6. Pursuant to RF Federal Law No.152-FZ of July 27, 2007, «On personal data», the Leading scientist agrees hereby to have his/her personal information presented in his/her grant application processed and used for the purposes of the grant competition and execution of relevant grant agreements by the competition organizer and the third parties contracted thereby, as well as to have his/her personal information saved in the database of NUST «MISiS» containing information about the grant competition participants, their respective grant applications.

7. *The University confirms herewith that:*

- It fulfills its tax obligations by paying requisite tax amounts to the budgets of all levels and by making mandatory payments to the state non-budget funds, is solvent, is not under liquidation or reorganization, has not been found insolvent (bankrupt), has not had its property seized or its economic activities suspended;
- The research project proposed herein does not duplicate any of its prior or current research projects carried by the structure financially supported different budget levels of the Russian Federation or funded from other sources.

8. If the application is decided a winner, NUST «MISiS» agrees to undertake the following commitments:

- Ensure financing of the research project in compliance with its approved budget;
- Execute, within the designated timeframe, a grant agreement in compliance with the form approved by relevant order;
- Execute service or (term) labor agreements with the Leading scientist;
- Provide office space and access to laboratories and other experimental research facilities required to implement the research project proposed herein;

Leading scientist

Leading scientist's signature Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS»

Leading scientist's signature Leading scientist's surname, first name, patronymic

Form 3. Leading scientist's Questionnaire

Information	Leading scientist's Information
<i>Personal data</i>	
Last name	
First name	
Patronymic	
Date of birth	
Citizenship	
Second citizenship (for individuals with dual citizenship)	
<i>Education</i>	
Education, name of institution of higher learning and year of graduation	
Academic degree	
Academic title	
<i>Place of residence</i>	
Country	
Mailing address	
Telephone	
E-mail	
<i>Employer</i>	
Full name of employer organization	
Job title	
Country	
Mailing address	
Telephone	
Fax	
E-mail	
<i>Previous employers</i>	
Full name, country, period	
Full name, country, period	
<i>Scienometrical indicators</i>	
Researcher ID ²	
SPIN ³	

² In order to obtain Researcher ID it is necessary to be registered at: <http://www.researcherid.com>.

³ Only the Leading scientists operating in Russia should fill-in this field. In order to obtain SPIN-code (Scientific Personal Identification Number), it is necessary to be registered in SCIENCE INDEX system at: http://elibrary.ru/author_info.asp?isnew=1&rpge=.

Sphere of scientific interests ⁴	
H-index ⁵ (Web of Science)	
Number of articles published in peer review periodicals referenced in the «Web of Science» database	
Number of citations of the articles published in periodicals referenced in the «Web of Science» database	
Average number of citations per article published in periodicals referenced in the «Web of Science» database	
Number of articles published in periodicals referenced in the «Web of Science» database within the past five years	
Average number of citations per article published in periodicals referenced in the «Web of Science» database for the past 5 years	
Average weighted impact factor of the periodicals in which the articles were published within the past five years ⁶	

Additional personal information

Leading scientist _____

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS» _____

⁴ Key words describing the Leading scientist's specialty.

⁵ As of the date of filling an application according to data base of «Web of Science».

⁶ Only for periodicals referenced in the «Web of Science» database.

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Form 4. Leading scientist's work experience and research achievements

Section 1. Leading scientist's research achievements

1.1. *Leading scientist's research work and principal scientific achievements*⁷

1.2. *Leading scientist's awards and honorary titles*

No.	Name of award/honorary title	Issuing authority	Year of winning an award	Achievement awarded by prize/honorary title
1.				
2.				

Section 2. Intellectual deliverables of the Leading scientist

2.1. *Leading scientist's major publications for the last 10 years in journals indexed in the «Web of Science»*⁸

No.	Name of the journal	Authors (in the order specified in publication)	Title of the article	Q1/Q2	Year, volume, issue	Impact-factor of publicatio
1.						
2.						

⁷ Description of the Leading scientist's work and work results in his/her research area.

⁸ Impact factors of the publication are specified in the descending order. Publications should meet the following requirements: a) must fall within the «article» or «review» category; b) be published in academic journals indexed at the time of application submission in Science Citation Index Expanded,

2.2. *List of monographs and chapters in monographs of the Leading scientist in 2011-2016*

No.	Monograph (authors of monograph, its name, year of publication, number of pages, ISBN, publisher)	Brief annotation to monograph
1.		
2.		

2.3. *List of patents, know-how, authorship certificates owned by the Leading scientist*

No.	Object of intellectual property-	Object type	Priority date	Territory (country) and term of validity	Title of protection (patent registration certificate)	
					No	Date of issue
1.						
2.						

2.4. *Major international conferences at which the Leading scientist made presentations in 2011-2016*

No.	Name of conference	Conference place and time and language of presentation	Presentation's authors and title	Type of presentation (invited/regular oral/poster)
1.				
2.				

Section 3. Leading scientist's experience in training research and academic staff

3.1. *Leading scientist's teaching experience*

Section 4. Social academic activity of the Leading scientist

4.1. *Membership in editorial and advisory boards of learned and peer-reviewed journals (and their duration)*

4.2. *Leading scientist's memberships in program and organizational committees of international conferences*

4.3. *Leading scientist's memberships in governing and advisory bodies of international academic societies and associations*

Leading scientist

Leading scientist from NUST «MISiS»

Form 5. Overview of the research team

Section 1. Information about the level and status of research studies of the research activities within the proposed research project area at NUST «MISiS»⁹

Section 2. Information about NUST «MISiS» infrastructure available within the proposed research project area¹⁰

Section 3. Anticipated research team

3.1. Anticipated laboratory staff members

No.	Full name	Position, academic degree, academic title Specify if student/graduate student	Year of birth	H-index	Number of publications in journals indexed in the «Web of Science» in 2011-2016 ¹¹	Place of work	Area of research interests
1.							
2.							

⁹ Including availability of research structures within the host organization (laboratories, divisions, multiple access centers, etc.) that are working within the proposed research project area.

¹⁰ Including availability of premises capable of accommodating the new laboratory; availability of requisite collective use equipment that may be used for the proposed research project purposes.(plan of equipment).

¹¹ Publications should meet the following requirements: a) be an article or a review; b) be published in academic journals indexed at the time of application submission in Science Citation Index Expanded

3.2. List of research projects completed by the project staff members within the proposed research project area in 2011-2016

No.	Project title	Funding source	Amount of Funding (mln Rub)	Project implementation term (start - completion)	Full name of the project participant from among the proposed research project staff members
1.					
2.					
3.					

3.3. Major articles published by the proposed research team members in journals indexed in the «Web of Science» in 2011-2016¹²

No.	Name of journal	Authors (in the same order as in the article)	Authors -research project participants	Title of article	Year, volume, issue	Impact-factor
1.						
2.						
3.						
....						

3.4. Monographs published by the proposed research project staff members in 2011-2016

No.	Monograph (monograph's authors, title, year of publication, number of pages, ISBN, publisher)	Brief annotation to monograph
1.		

3.5. Major international conferences in the proposed research project area at which the proposed research team members made reports and presentations in 2011-2016

No.	Name of conference	Conference place and time and language of presentation	Presentations authors and title	Type of presentation (invited/regular oral/poster)
1.				
2.				

¹² Publications should meet the following requirements: a) be an article or a review; b) be published in academic journals indexed at the time of application submission in Science Citation Index Expanded,.

3.6. List of intellectual property objects authored by the proposed research project staff members and registered in 2011-2016

No.	Object of intellectual property	Object type	Priority date	Territory (country) and term of validity	Title of protection (patent, certificate of registration)	
					No.	Date of issue
1.						
2.						

Section 5. Anticipated impact of the project upon the University innovation development (development strategy)

Leading scientist _____
 Leading scientist's signature Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS» _____
 Leading scientist's signature Leading scientist's surname, first name, patronymic

Form 6. Research Project Description

Section 1. General information about the project

1.1. Project Title

1.2. Project goal

1.3. Project objectives

1.4. Anticipated project result¹³

Section 2. Project description

2.1. Description of the proposed research project¹⁴

2.2. Description of the scientific approaches and methods proposed to achieve the anticipated project results

2.3. Description of scientific capacity and project-related results achieved by the research team member¹⁵

¹³ Including anticipated inventions, patents, know-how, etc.

¹⁴ Relevance of the research project from the viewpoint of the current status of global science; likelihood of achieving breakthrough world-class research results and their relevance in terms of the global science and economy.

¹⁵ Description of project-related work already completed by the entire research project group put together by the Leading scientist; productivity, independence, and initiative of the research project group members based on their work outside the research project.

Section 3. Project funding¹⁶

	2017 (mln Rub)	2018 (mln Rub)	Total (mln Rub)
Grant funds			
Financial contribution from other sources			

Section 4. Vision of the structure upon completion of the project¹⁷(future strategy)

Leading scientist

Leading scientist's signature Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS»

Leading scientist's signature Leading scientist's surname, first name, patronymic

¹⁶ Detailed information about expenditure of the grant funds and host organization's financial contribution is provided in Forms 8-9.

¹⁷ Research team ability to continue its operations upon completion of the research project in question and perform world-class scientific research.

Form 7. Project Efficiency Indicators

No.	Effectiveness indicator	Unit of Measure	2017	2018
1.	Number of articles published by the leading scientist in scientific periodicals indexed in the «Web of Science» ¹⁸	pcs		
2.	Number of articles published by the leading scientist in scientific periodicals indexed in the «Web of Science» in the journals included in the first quartile of the impact factor of the selected research area ¹⁹	pcs		
3.	Number of new educational lecture courses designed within the proposed research project area	pcs		
4.	Number of oral reports by research team members on the matters of the proposed research area at international (outside the RF) conferences	pcs		
5.	Number of applications for an international or Russian patent for an invention and/or received patents of the Russian Federation	pcs		
<i>Other indicators independently identified</i>				
...				
...				

Note: All data must be specified by the year (not by accrued total).

Leading scientist _____

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS» _____

Leading scientist's signature

Leading scientist's surname, first name, patronymic

¹⁸ Publications must meet the following requirements: a) they must fall within the «article» or «review» category;

¹⁹ Publications must meet the following requirements: a) they must fall within the «article» or «review» category; b) must be in the first quartile in impact factor.

Form 8. Project Implementation Plan

Leading scientist:

Research
Project:

Phase No.	List of activities and	Scheduled results of activities and measures	Scheduled scientific publications, results of inventive activities ²⁰ and conference papers	Implementation period (start -finish) (date)	Grant funds spent for researches during the phase ('000 rubles)	Other source funds, spent for researches ('000 rubles)
1.	<i>List of activities funded by the grant</i> 1.1. 1.2.			01.10.2017 – 31.12.2017		
2.	<i>List of activities funded by the grant</i> 2.1. 2.2.			01.01.2018 – 30.09.2018		

Leading scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

²⁰ Articles in the periodicals referenced in the «Web of Science» database, monographs, chapters in monographs, applications for a patent for an invention, utility model, or commercial prototype, receipt of certificates, patents.

Leading scientist from NUST «MISiS» _____
Leading scientist's signature Leading scientist's surname, first name, patronymic

Form 9. Research Project Budget

Leading scientist Research project budget for 2017 – 2018

Phase No	Expenditure line-item	2017		2018		Total	
		Grant funds ('000 RUB)	Other funds ('000 RUB)	Grant funds ('000 RUB)	Other funds ('000 RUB)	Grant funds ('000 RUB)	Other funds ('000 RUB)
1.	Compensation payable to the Leading scientist						
2.	Research equipment acquisition costs ²¹	0		0		0	
3.	Research equipment parts and supplies costs ²¹	0		0		0	
4.	Travel expenses of the Leading scientist						
	TOTAL:						

Leading scientist _____

Leading scientist's signature Leading scientist's surname, first name, patronymic

Leading scientist from NUST «MISiS» _____

Leading scientist's signature Leading scientist's surname, first name, patronymic

²¹ Grant funds cannot be used.

Form A. Application Registration K3

Name of competition	Full name of the Leading Scientist	Residence country	Place of work (University, Department)	The Leading Scientist's post	The Leading Scientist's H-index in the «Web of Science»	Number of articles referenced in the «Web of Science»	Citation index in the «Web of Science»	Field of Science	Research Area	Anticipated name of the project	Requested Funding	Anticipated term of the visit (___ months)	Person in charge on behalf of NUST «MISiS» (name, telephone , e-mail)

Appendix 1

Rank	Research area
1	ACOUSTICS
2	ASTRONOMY & ASTROPHYSICS
3	AUTOMATION & CONTROL SYSTEMS
4	BIOCHEMICAL RESEARCH METHODS
5	BIOCHEMISTRY & MOLECULAR BIOLOGY
6	BIOLOGY
7	BIOPHYSICS
8	BIOTECHNOLOGY & APPLIED MICROBIOLOGY
9	CELL & TISSUE ENGINEERING
10	CELL BIOLOGY
11	CHEMISTRY, ANALYTICAL
12	CHEMISTRY, APPLIED
13	CHEMISTRY, INORGANIC & NUCLEAR
14	CHEMISTRY, MEDICINAL
15	CHEMISTRY, MULTIDISCIPLINARY
16	CHEMISTRY, ORGANIC
17	CHEMISTRY, PHYSICAL
18	CLINICAL NEUROLOGY
19	COMMUNICATION
20	COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
21	COMPUTER SCIENCE, CYBERNETICS
22	COMPUTER SCIENCE, HARDWARE & ARCHITECTURE
23	COMPUTER SCIENCE, INFORMATION SYSTEMS

24	COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
25	COMPUTER SCIENCE, SOFTWARE ENGINEERING
26	COMPUTER SCIENCE, THEORY & METHODS
27	CRYSTALLOGRAPHY
28	ECOLOGY
29	ECONOMICS
30	EDUCATION & EDUCATIONAL RESEARCH
31	EDUCATION, SCIENTIFIC DISCIPLINES
32	EDUCATION, SPECIAL
33	ELECTROCHEMISTRY
34	EMERGENCY MEDICINE
35	ENDOCRINOLOGY & METABOLISM
36	ENERGY & FUELS
37	ENGINEERING, AEROSPACE
38	ENGINEERING, BIOMEDICAL
39	ENGINEERING, CHEMICAL
40	ENGINEERING, CIVIL
41	ENGINEERING, ELECTRICAL & ELECTRONIC
42	ENGINEERING, ENVIRONMENTAL
43	ENGINEERING, GEOLOGICAL
44	ENGINEERING, INDUSTRIAL
45	ENGINEERING, MECHANICAL
46	ENGINEERING, MULTIDISCIPLINARY
47	ENVIRONMENTAL SCIENCES

48	GEOCHEMISTRY & GEOPHYSICS
49	GEOLOGY
50	GEOSCIENCES, MULTIDISCIPLINARY
51	IMMUNOLOGY
52	LOGIC
53	MANAGEMENT
54	MARINE & FRESHWATER BIOLOGY
55	MATERIALS SCIENCE, BIOMATERIALS
56	MATERIALS SCIENCE, CERAMICS
57	MATERIALS SCIENCE, CHARACTERIZATION & TESTING
58	MATERIALS SCIENCE, COATINGS & FILMS
59	MATERIALS SCIENCE, COMPOSITES
60	MATERIALS SCIENCE, MULTIDISCIPLINARY
61	MATERIALS SCIENCE, PAPER & WOOD
62	MATERIALS SCIENCE, TEXTILES
63	MATHEMATICAL & COMPUTATIONAL BIOLOGY
64	MATHEMATICS
65	MATHEMATICS, APPLIED
66	MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
66	MECHANICS
67	MEDICINE, RESEARCH & EXPERIMENTAL
68	METALLURGY & METALLURGICAL ENGINEERING

69	MICROBIOLOGY
70	MICROSCOPY
71	MINERALOGY
72	MINING & MINERAL PROCESSING
73	MULTIDISCIPLINARY SCIENCES
74	NANOSCIENCE & NANOTECHNOLOGY
75	NUCLEAR SCIENCE & TECHNOLOGY
76	ONCOLOGY
77	OPTICS
78	PHARMACOLOGY & PHARMACY
79	PHYSICS, APPLIED
80	PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
81	PHYSICS, CONDENSED MATTER
82	PHYSICS, FLUIDS & PLASMAS
83	PHYSICS, MATHEMATICAL
84	PHYSICS, MULTIDISCIPLINARY
85	PHYSICS, NUCLEAR
86	PHYSICS, PARTICLES & FIELDS
87	ROBOTICS
88	SOCIAL SCIENCES, MATHEMATICAL METHODS
89	SPECTROSCOPY
90	TELECOMMUNICATIONS
91	THERMODYNAMICS
92	TOXICOLOGY

93	TRANSPLANTATION
94	TRANSPORTATION
95	TRANSPORTATION SCIENCE & TECHNOLOGY
96	WATER RESOURCES