

COMPETITION DOCUMENTATION

**regulating terms and conditions of the open International grant
competition of National University of Science and Technology
“MISiS” designed to support to new research projects implemented
under the supervision of the Leading scientists, and to establish a new
laboratory**

MOSCOW 2022

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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 in the amount of up to 74 million rubles each to support a research project over a period of four years (from 01.05.2022 to 31.12.2025) with the possibility of being renewed based on the results of the previous work.

Grants of NUST MISiS are allocated in the amount of up to 74 million rubles, including:

- expenses for the remuneration of the Leading Scientist (Head of the project) and members of the research team, taxes and other social benefits accrued for the remuneration of the Leading scientist and members of the research team (the amount of expenses should not exceed 50% of the grant amount);
 - expenses for business trips of the Leading scientist and members of the research team and expenses for internships in the best research centers of members of the research team;
 - expenses for the payment of materials and components for equipment for scientific research;
 - expenses for the payment of equipment for scientific research.
- 1.3. The amount of the grant is determined on the basis of the application submitted by the participant for participation in the competition, which contains, among other things, a work plan and an estimate of the costs of conducting scientific research, but no more:
 - in 2022 – 25 million rubles;
 - in 2023 – 27 million rubles;
 - in 2024 – 11 million rubles;
 - in 2025 – 11 million rubles.
 - 1.4. Each competition winner will sign a grant agreement with NUST “MISiS”.
 - 1.5. The legal relationships between all parties involved in the open grant competition are regulated by applicable laws of the Russian Federation.
 - 1.6. Grants are allocated as part of the implementation of the Strategic Academic Leadership Program "Priority 2030".

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.
- 2.3. Only those Leading scientists that have had no job relationships with NUST “MISiS” for the last 1 years (2021), are eligible to apply for the grant.

3. Research project and research project implementation requirements

- 3.1. Any research projects proposed hereunder may not duplicate any carried out in the previous period or current research projects financially supported by different level budgets 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 fields of science:
 - **Materials of the future**
 - **Quantum Internet**
 - **Biomaterials and bioengineering**
 - **Technologies for sustainable development**
 - **Digital business**
- 3.3. The research team formed by the Leading scientist to implement the research project at NUST “MISiS” shall include at least 2 members with doctoral degree, at least 3 postgraduate students and at least 3 undergraduate students of NUST “MISiS”.
- 3.4. Personal (with full-time presence at NUST “MISiS”) supervising a scientific research by a leading scientist is a conditions for conducting a scientific research at least:

Option nR¹:

- **30 calendar days (total) in 2022;**
- **60 calendar days (in total) in each subsequent year**, provided that at least 2 members of the research team (postgraduates and (or) students) of the laboratory are trained in the direction of scientific research under the supervision of a leading scientist in the organization in which the leading scientist works on a permanent basis, for at least 30 calendar days in each year of scientific research for each of the specified members of the scientific team of the laboratory;
- **90 calendar days (in total) in each subsequent year**, if the internship of members of the research team is not provided or is not organized

Option R²:

- **60 calendar days (total) in 2022;**
- **90 calendar days (in total) in each subsequent year**, provided that at least 2 members of the research team (postgraduates and (or) students) of the laboratory are trained in the direction of scientific research under the supervision of a leading scientist in the organization in which the leading scientist works on a permanent basis, for at least 30 calendar days in each year of scientific research for each of the specified members of the scientific team of the laboratory;
- **120 calendar days (in total) in each subsequent year**, if the internship of members of the research team is not provided or is not organized

- 3.5. NUST “MISiS” must undertake to:

¹ For the Leading scientist who permanently or predominantly lives outside the territory of the Russian Federation.

² For the Leading scientist permanently or predominantly residing in the Russian Federation.

- Ensure continuous funding of the research project in compliance with its approved budget;
 - Provide office space and access to laboratories and other experimental research facilities required to implement research projects proposed hereunder;
 - Execute labor agreements (services agreements, fixed-term employment contracts, additional agreements to a main contract and etc.) with the Leading scientist and the research project team members;
 - Compensate each member of the research team taking into account the quality and quantity of the work completed by each member of the team specifically (the total amount of compensation payable to the Leading scientist and team members, inclusive of taxes and other social benefits, should not exceed 50 per cent of the grant sum, and as well as the amount of remuneration to the Leading scientist, including taxes and other social benefits, should not exceed 15 percent of the grant amount).
- 3.6. The Leading scientist shall supervise the scientific research during the entire duration of the project.
- 3.7. The Leading scientist shall appoint responsible deputy of the Leading scientist (Deputy Head of the project), who will be in charge of administrative supervision of the research team and make organizational decisions during the absence of the Leading scientist.
- 3.8. The Leading scientist, together with a Deputy Head of the project, shall make decisions regarding the disbursement of the funds in accordance with the previously approved cost estimate.
- 3.9. The mandatory results of scientific research are the publication of at least 3 articles in 2022, at least 5 articles in 2023, at least 5 articles in 2024, at least 5 articles in 2025 by a fractional account of the scientific team in scientific publications assigned to the I and II quartiles³ of the Web of Science Core Collection database.
- 3.10. All published articles must have an affiliation of NUST "MISIS", a link to the grant and the Strategic Academic Leadership Program "Priority 2030".
- 3.11. A mandatory result of the implementation of scientific research is to attract additional funding (from all sources⁴) for the implementation of scientific research of at least 40% of the amount of the requested grant.
- 3.12. Presentation of the concept of at least one educational product in the areas of strategic projects of the university in one of the following formats⁵:
- the concept of a new Master's degree program;
 - the concept of the program of additional professional education (36-250 hours)⁶ ;

³ In scientific publications assigned to quartiles I and II (according to Journal Citation Reports), as well as scientific publications included in the Arts and Humanities Citation Index (A&HCI), Conference Proceedings Citation Index - Science (CPCI-S) and Book Citation Index - Social Sciences & Humanities (BKCI-SSH) databases Web of Science Core Collection.

⁴ Grants of the Russian Sciences Foundation, other competitions-grants, business agreements, other grants of NUST MISIS under the Strategic Academic Leadership Program "Priority 2030".

⁵ All the presented concepts of educational products at the next stage participate in the competition for financing the development of new educational programs of NUST MISIS in the areas of strategic projects of the University.

⁶ Programs of additional professional education should provide for the possibility of forming new educational programs based on them

- the concept of an online specialization⁷ in English for the edX platform, consisting of 3-5 courses in a MOOC format.
- 3.13. The Leading scientist undertakes an obligation as a research outcome to popularize the scientific research area in the form of oral reports at international conferences and events as well as other external mass media forms.
- 3.14. The Leading scientists and research team shall be 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 registration of the application
Form A. “Application Registration” – to be filled in advance and mailed to projects@isis.ru for obtaining registration number;
- 5.2 A grant application shall contain the following:
Form 1. “Document Checklist”, listing all documents submitted as part of the grant application;
Form 2. “Grant Application”;
- 5.3 Documents of 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 laboratory to be established under the project”;
Form 6. “Research Project Description”;
Form 7. “Possible topics of educational programs developed under the project”
Form 8. “Project Efficiency Indicators”;
Form 9. “Research Project Implementation Plan”;
Form 10. “Research Project Budget”;
Form 11. “Break down of the expenditures”;
Appendix (if applicable);

⁷ Online specialization programs should provide for the possibility of forming new educational programs based on them

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. NUST “MISiS” grant applications prepared and submitted by a Leading scientist and research team shall meet the competition selection criteria enlisted in cl.10.4. The application shall be prepared in electronic form.

6.2. Form A. “Application Registration” shall be filled in 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 shall 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 shall be specified in Russian rubles and shall not exceed the maximum grant amount that may be made available under a grant agreement.

6.5. All grant application documents shall be signed by the Leading scientist if provided for in the prescribed form.

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 shall be arranged in the order accounted for by Form 1. “Document checklist”.

6.8. The full version of the grant application must contain the documents provided for in cl. 5.1-5.4 of the Competition Documentation and is submitted for participation in the competition in electronic form.

6.9. The full electronic version shall be submitted on an electronic medium (CD disk and or USB flash drive) and shall contain the following files:

- Application in Russian in Word;
- Application in English in Word;
- Application in Russian in pdf (with all signatures);
- Application in English in pdf (with all signatures);
- Appendix (passport copy, residence permit copy (if applicable), diploma copy, PhD certificate copy, CV, copies of other diplomas and certificates, etc.).

The electronic medium (CD disk and or USB flash drive) shall obligatorily carry the Registration number.

7. Submitting a grant application

- 7.1. Applicants shall submit an application on electronic media in a sealed envelope containing a signed electronic version with the application files according to cl. 6.9, the electronic media must be signed the Registration number.
- 7.2. Each applicant shall label the envelope containing his/her grant application as follows: «Application for participation in the open international grant competition designed to provide NUST «MISiS» support to new research projects implemented under the supervision of the world's Leading scientists, and to establish a new laboratory», as well as specify the Registration number.
- 7.3. 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, bld. 1, Moscow (International Research Projects Department, code №431) in the period from **February 21, 2022 to March 14, 2022 (12:00 Moscow time)**.
- 7.4. Each envelope containing a grant application will be registered in the grant applications registry.
- 7.5. 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. Any grant applications received by the competition organizer after the grant application submission deadline will be disqualified from participation in the open grant competition.
- 8.2. 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” no later than three working days from the date of signing the minutes.

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;
 - 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 scientific research proposed for carrying out at the expense of the grant with the requirements established in this 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) on the compliance of the applicants whose grant applications and research project proposals meet the qualification and selection requirements accounted for by the Competition Documentation;
 - b) on the non-compliance of the applicants, who do not meet and/or whose grant applications and/or research project proposals do not meet the qualification 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” no later than three working days from the date of signing the minutes.

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 grant applications submitted to the open grant competition shall be expertized by The International Scientific Advisory Council of NUST “MISiS”.
- 10.4. 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 (requirements)	Group weight	Weight of criterion within group	Maximum score
1. Leading scientist's work experience and scientific achievements					
1.1	Level of scientific publications	To be assessed: types of journals (professional, leading) 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.	30%	70%	21
1.2	Leading scientist's experience in managing research team	To be assessed: Leading scientist's experience in creating and managing world-class research teams.		30%	9
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.		35%	14

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 level; 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	40%	25%	10
2.3	Adequacy of the amount of funding requested by the applicant in terms of its ability to ensure the achievement of the project results; quality of the project budget detailing	To be assessed: how adequate the amount of requested project funding is (including extra funding) and if it is excessive or insufficient to achieve the project goals and accomplish its objectives		15%	6
2.4	Anticipated overview of the laboratory to be established in the University in the framework of the project	To be assessed: the ability of the laboratory to continue its operations upon completion of the project; the research team ability to perform world-class scientific research; availability of independent plans to obtain fundraising from various sources for 4 years, feasibility of such plans.		25%	10
3. Overview of the research team, vision of the laboratory to be established under the project					
3.1	Publications of the research team members	To be assessed: number of articles, monographs and conference reports published by the team members within the past five years, the level of the journals, publishers and conferences; number and level of journal articles referenced in the Web of Science or Scopus; number of articles intended for publication in journals indexed in the Web of Science or Scopus.	30%	50%	15

3.2	Research infrastructure available to the research team members	To be assessed: how advanced the research infrastructure available to the team members is; the infrastructure's ability to facilitate world-class research activities; possibility to upgrade the infrastructure required for the research project aims.		20%	6
3.3	Laboratory's role in the innovative development	To be assessed: the laboratory ability to significantly improve the efficiency of the host organization's research; the socio-economic effects of the laboratory's operations; the socio-economic effects of the laboratory's operations; the laboratory's contribution to the development of the host organization's infrastructure.		30%	9

- 10.5. 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.
- 10.6. The Council shall review the expert assessment statements and makes a decision on the competition winners by April 25, 2022.
- 10.7. Information about the outcomes of the open grant competition shall be posted on the official website of NUST “MISiS” no later than three working days from the date 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.

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 support to new research projects implemented in the field of a new scientific direction under the supervision of the Leading scientists, and to establish a new laboratory

Grant application registration number _____

No.	Name of document	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»	
	Documents pertaining to the research project proposed hereunder:	
5.	Form 5. « Overview of the laboratory to be established under the project»	
6.	Form 6. «Research Project Description»	
7.	Form 7. "Possible topics of educational programs developed within the framework of the project"	
8.	Form 8. «Project Efficiency Indicators»	
9.	Form 9. «Research Project Implementation Plan»	
10.	Form 10. «Research Project Budget»	
11.	Form 11. «Breakdown of the expenditures»	
	Appendices	

Leading scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISIS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

Form 2. Grant Application

APPLICATION

for participation in the open International grant competition of NUST “MISiS” designed to support to new research projects implemented in the field of a new scientific direction under the supervision of the Leading scientists, and to establish a new laboratory

(full name of the Leading scientist)

hereinafter referred to as «Leading scientist»,
submits herewith joint application for participation in the grant competition of NUST “MISiS” designed to support research projects implemented under the supervision of the Leading scientists, and to establish a new laboratory.

1. *Information about the research project*

1.1 Strategic project (one of the five Strategic projects is selected):

- ☐ Materials of the future
- ☐ Quantum Internet
- ☐ Biomaterials and bioengineering
- ☐ Technologies for sustainable development
- ☐ Digital business

1.2 Research area (no more than five directions are selected according to Appendix 1)_____

1.3 Project Title _____

2. Grant amount requested to support research projects implemented at NUST “MISiS” under the supervision of the Leading scientists:

in 2022_____ mln Rub,

in 2023 _____ mln Rub,

in 2024 _____ mln Rub

in 2025 _____ 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 within the framework of this Competition;

- The research project proposed herein **does not duplicate** any of his/her prior or current research projects financially supported by different budget levels or funded from other sources.

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

- Execute a grant agreement in due time;
- Hire research team members, including **at least 2 members with doctoral degree, at least 3 postgraduate students, and at least 3 undergraduate students of NUST “MISIS”**;
- Carry out from 01.05.2022 to 31.12.2025 personal supervision of the ongoing scientific research with full-time presence at NUST MISIS at least:

☐ **Option nR:**

If the permanent place of residence of the Leading scientist is not in the territory of the Russian Federation.

- _____ **calendar days (total) in 2022**
- _____ **calendar days (total) in 2023**
- _____ **calendar days (total) in 2024**
- _____ **calendar days (total) in 2025**

Internship for young scientists:

- _____ **calendar days (total) in 2022**
- _____ **calendar days (total) in 2023**
- _____ **calendar days (total) in 2024**
- _____ **calendar days (total) in 2025**

☐ **Option R:**

If the permanent place of residence of the Leading scientist is in the territory of the Russian Federation

- _____ **calendar days (total) in 2022**
- _____ **calendar days (total) in 2023**
- _____ **calendar days (total) in 2024**
- _____ **calendar days (total) in 2025**

Internship for young scientists:

- _____ **calendar days (total) in 2022**
- _____ **calendar days (total) in 2023**
- _____ **calendar days (total) in 2024**
- _____ **calendar days (total) in 2025**

- Publish in high-ranking journals _____ articles by fractional score for the scientific team in scientific publications assigned to the I and II quartiles of the Web of Science Core Collection database during the grant period (until 12/31/2025) in accordance with the years:

_____ articles in 2022
 _____ articles in 2023
 _____ articles in 2024

_____ articles in 2025

- Raise additional funding (from all sources) in the amount of _____ rubles in the direction of scientific research.
- Prepare _____ concepts of an educational product in the areas of strategic projects of the university in one of the following formats⁸:
 - • the concept of a new educational program of the master's program;
 - • the concept of the program of additional professional education (36-250 hours)⁹;
 - • the concept of an online specialization¹⁰ in English for the edX platform, consisting of 3-5 courses in MOOC format.
- Submit an annual research project progress report documented in compliance with the form approved by NUST “MISiS”.

The Leading scientist is obliged to:

- when publishing a scientific work using the results obtained at the expense of the grant, make a reference to state support **within the framework of the implementation of the Priority 2030** strategic academic leadership program, as well as to the **University**, indicating the **grant number**.
- submit reports on ongoing research and/or event organization in accordance with the form approved by NUST MISiS.
- The Leading Scientist is in charge of the scientific research during the whole period of the project.
- The Leading Scientist appoints a responsible Deputy Leading Scientist who is responsible for the administrative management of the research team and makes organizational decisions during the absence of the Leading Scientist¹¹.
- The Leading Scientist, together with the Deputy Leading Scientist, decides on the system of spending funds, according to the previously approved budget.
- A mandatory result of the implementation of scientific research is the popularization of the scientific direction using different formats of external media.
- Responsibility for the achievement of the results of the scientific research stipulated by the grant agreement of NUST “MISiS” is borne by the Leading scientist and research team.

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

⁸ All presented concepts of educational products at the next stage participate in the competition for financing the development of new educational programs by NUST MISiS in the areas of the university's strategic projects.

⁹ APE programs should provide for the possibility of developing new educational programs on their basis

¹⁰ Online specialization programs should provide for the possibility of forming new educational programs on their basis

¹¹ This clause does not enter into force if the lead scientist is present in person for more than 8 months a year.

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 implemented by the team financially supported by different level budgets or funded from other sources.

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

- Provide visa support and migration registration of foreign participants;
- Ensure continuous funding 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 (fixed term) labor agreements or addenda to agreement with the Leading scientist and the research team members;
- Compensate each member of the research team taking into account the quality and quantity of the work completed by each member of the team specifically, the total amount of compensation payable to the Leading scientist and team members, inclusive of taxes and other social benefits, should not exceed 50 per cent of the grant sum; as well as the amount of remuneration to the leading scientist, including taxes and other social payments, should not exceed 15 percent of the grant amount;
- 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

Deputy Head of the project
(from NUST «MISiS»)

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>Scientometrical indicators</i>	
Researcher ID ¹²	
SPIN ¹³	

¹² In order to obtain Researcher ID it is necessary to be registered at: <http://www.researcherid.com>.

¹³ 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 ¹⁴	
H-index (Web of Science) ¹⁵	
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 in the «Web of Science» database	
Number of articles published in periodicals referenced in the «Web of Science» database for the past five years	
Average number of citations per article in the «Web of Science» database for the past five years	
Average weighted impact factor of publications in which articles were published over the past five years ¹⁶	

Additional personal information

Leading scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

¹⁴ Key words describing the Leading scientist's specialty.

¹⁵ At the time of submission of the application in accordance with the database "Web of Science".

¹⁶ Only for periodicals referenced in the "Web of Science" database.

Form 4. Scientific achievements and experience of the leading scientist

Section 1. Leading scientist's research achievements

1.1. *Leading scientist's research work and principal scientific achievements*¹⁷

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 achievements of the Leading scientist

2.1. *Leading scientist's **major** publications for the last 10 years in journals indexed in the database "Web of Science"*¹⁸

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

2.2. *List of monographs and chapters in monographs of the Leading scientist for the last 5 years*

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

¹⁷ Description of the Leading scientist's work and work results in his/her research area.

¹⁸ Impact factors of the publication are specified in the descending order. Publications must meet the following requirements: a) must be of the type "article" (article) or "review" (review); b) must be published in scientific journals indexed at the time of application in Science Citation Index Expanded, Social Science Citation Index, Arts&Humanities Citation Index. Lists of indexed publications and forms for their search are publicly available at <http://ip-science.thomsonreuters.com/mjl/>

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 for the last 5 years*

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

Section 3. Leading scientist's experience in managing research staff

3.1. *Leading scientist's experience in establishing a laboratory of a world level and managing research process*

3.2. *Research laboratory supervision experience*¹⁹

No.	Name of the laboratory	Name of the organization where the laboratory was established	Period of work of the laboratory	Number and total amount of grants	Number of published articles
1.	..				
2.	..				

3.3. *Projects implemented or being implemented under the supervision of the Leading scientist*

No.	Project title	Amount of funding (million rubles)	Source of finding	Project implementation term (start-completion) (YYYY-YYYY)	Project's principal results
1.					
2.					

Section 4. Leading scientist's experience in training research and academic specialists

4.1. *Leading scientist's experience in supervising people with candidate of sciences degree and doctors of science degree obtaining. Teaching experience of the leading scientist.*

Section 5. Social academic activity of the Leading scientist

5.1. *Membership in editorial and advisory boards in peer-reviewed journals (specify the duration of membership)*

5.2. *Memberships in program and organizational committees of international conferences*

¹⁹ Please list laboratories created by the Leading scientist and research was done under the supervision of the Leading scientist.

5.3. *Memberships in governing and advisory bodies of international academic societies and associations*

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

Deputy Head of the project
(from NUST «MISiS») _____
Scientist's signature Leading scientist's surname, first name, patronymic

Form 5. Overview of the laboratory to be established under the project

Section 1. Level and status of research studies in the research project area at the NUST “MISiS”²⁰

Section 2. Anticipated infrastructure for the proposed research project area in the NUST “MISiS”²¹

Section 3. Overview of the laboratory to be established under the project

3.1. Feasibility basis for creating a laboratory in the proposed research area at NUST “MISiS”

3.2. Anticipated research team

Types of staff	Total number	Including the University/ scientific structure employees
Members with habilitation degree		
Members with doctoral degree		
Postgraduates		
Undergraduates		
Other		

Section 4. Anticipated laboratory staff and their professional qualifications

4.1. Anticipated research project staff members

²⁰ Including availability of research structures within NUST “MISiS” (laboratories, departments, collective use centers, etc.) that are working within the proposed research project area.

²¹ Including availability of premises capable of accommodating a new laboratory; installing necessary equipment, availability of necessary infrastructure, etc. used for implementation of the project (plan of equipment installation and infrastructure in the new laboratory).

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 over the past 5 years ²²	Place of work	Area of research interests
1.							
2.							

4.2. List of research projects completed by the team members within the proposed research project area over the past 5 years.

No.	Project title	Funding source	Amount of Funding (million rubles)	Project implementation term (start - completion)	Full name of the project participant from among the proposed team members
1.					
2.					
3.					

4.3. Major articles published by the proposed research team members in journals indexed in the Web of Science over the past 5 years¹²

No.	Name of journal	Authors (in the same order as in the article)	Authors – team members	Title of article	Year, volume, issue	Impact factor
1						
2						
3.						
....						

4.4. Monographs published by the proposed team members in the proposed research project area over the past 5 years

²² 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, Social Science Citation Index, Arts & Humanities Citation Index. Lists of indexed editions and forms for their search are on open access at : <http://ip-science.thomsonreuters.com/mjl>.

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

4.5. Major conferences in the proposed research project area at which team members made reports and presentations over the past 5 years.

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

Section 5. Social academic activity of the research group members of the infrastructure/laboratory

5.1. Membership in editorial and advisory boards in peer-reviewed journals (and their duration)

5.2. Memberships in program and organizational committees of international conferences

5.3. Memberships in governing and advisory bodies of international academic societies and associations

Section 6. Anticipated impact of the created laboratory upon the University innovation development (development strategy)

Indicate the possibility of unique results and their impact on further development

Leading Scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

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 results²³

Section 2. Project description

2.1. Description of the proposed research project²⁴

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 members²⁵

²³ Including anticipated inventions, patents, know-how, etc.

²⁴ 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.

²⁵ 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 in question; the research project group's place among the world's best laboratories working within related research areas.

Section 3. Project funding²⁶

	2022 (mln Rub)	2023 (mln Rub)	2024 (mln Rub)	2025 (mln Rub)	Total (mln Rub)
Grant funds					
Financial contribution of other sources					

Section 4. Laboratory vision upon completion of the project (future strategy)²⁷

Leading Scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

²⁶ Detailed information about expenditure of the grant funds and from other sources of funding is provided in Forms 10-11.

²⁷ Laboratory ability to continue its operations upon completion of the research project in question and perform world-class scientific research; laboratory's fundraising plan, diversity of envisioned funding sources, viability and practicability of the laboratory's fundraising strategy; and laboratory's contribution to the development of the University infrastructure.

Form 7. Possible topics of educational programs developed within the framework of the project

Section 1. Planned educational activities

1.1 Preliminary titles of the educational courses

1.2 Main directions of educational courses

1.3 Preliminary titles of the profile and direction of training program

Leading Scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

Form 8. Project Efficiency Indicators

No.	Effectiveness indicator	Unit of Measure	2022	2023	2024	2025
1.	Number of members with doctoral degree permanently employed by the laboratory ²⁸	pax				
2.	Number of the NUST «MISiS» postgraduate students permanently employed by the laboratory ²⁹	pax				
3.	Number of the undergraduate students of NUST «MISiS» permanently employed by the laboratory ³⁰	pax				
4.	Number of articles published in scientific journals as a fractional score for the scientific team in scientific journals, assigned to the I and II quartiles ³¹ of the Web of Science Core Collection database.	pcs				
5.	Number of applications for an international or Russian patent for an invention and/or received patents of the Russian Federation	pcs				
6.	Number of unique research results created	pcs				
7.	Number of doctoral papers defended by the proposed laboratory staff within the proposed research project area	pcs				
8.	Number of foreign specialists employed by the laboratory	pax				
9.	Number of laboratory staff members accepted to postgraduate school within the proposed research project area or approved as candidates for academic degrees	pax				
11.	Number of young scientists permanently	pax				

²⁸ Planned number of members with doctoral degree permanently employed by the research team, but not less than two candidates.

²⁹ Planned number of the NUST “MISiS” postgraduate students permanently employed by the research team, but not less than three students.

³⁰ Number of the NUST “MISiS” undergraduate students permanently employed by the research team not less than three students.

³¹ In scientific publications assigned to the I and II quartiles (according to Journal Citation Reports), as well as scientific publications included in the Arts and Humanities Citation Index (A&HCI), Conference Proceedings Citation Index - Science (CPCI-S) and Book Citation Index - Social Sciences & Humanities (BKCI-SSH) Web of Science Core Collection databases.

	working as part of the scientific team of the laboratory, who have undergone retraining or qualifications improvement training at the laboratory within the proposed research project area					
12.	Number of group members with international PhD degree	pax				
13.	Number of young researchers under the age of 39 who permanently work as part of the scientific team of the laboratory	pax				
14.	Amount of attracted extra-budgetary financing	mln rubles				
<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

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

Form 9. Project Implementation Plan

Leading scientist:

Name of Research Project:

Phase No.	List of works and activities performed	Scheduled results of works and activities performed	Scheduled scientific publications, results of inventive activities ³² and international conference papers	Implementation period (start -finish)	Grant funds spent for researches during the phase ('000 rubles)	Non-grant budget funds, spent for researches ('000 rubles)
1.	<i>List of works and activities funded by the grant</i> 1.1. 1.2.			01.05.2022 – 31.12.2022		
2.	<i>List of works and activities funded by the grant</i> 2.1. 2.2.			01.01.2023 – 31.12.2023		
3.	<i>List of works and activities funded by the grant</i> 3.1. 3.2.			01.01.2024 - 31.12.2024		

³² 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

4.	<i>List of works and activities funded by the grant</i> 4.1. 4.2.			01.01.2025 – 31.12.2025		
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Leading Scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

Form 10. Research Project Budget

№	Expenditure line-item	2022		2023		2024		2025		TOTAL	
		Grant funds (‘000 RUB)	Other sources (‘000 RUB)	Grant funds (‘000 RUB)	Other sources (‘000 RUB)	Grant funds (‘000 RUB)	Other sources (‘000 RUB)	Grant funds (‘000 RUB)	Other sources (‘000 RUB)	Grant funds (‘000 RUB)	Other sources (‘000 RUB)
1.	Compensation payable to the Leading scientist and members of the research project team, including taxes and other social benefits, accrued on compensation of the Leading scientist and members of the research team ³³										
2.	Research equipment purchase costs										
3.	Research equipment parts and supplies costs										
4.	Business trip expenses of the Leading scientist and research team members										
	TOTAL										

Leading scientist _____/ (full name)

Deputy Head of the project
(from NUST «MISiS»)

Scientist's signature

Leading scientist's surname, first name, patronymic

³³ No more than 50% of the grant funds.

Form 11. Breakdown of the expenditures

Section 1. Breakdown of the planned expenditure of the grant

1.1. Purchase of research equipment

No.	Name of equipment ³⁴	Quantity	Price (mln Rub)	Total amount (mln Rub)
2022				
1.				
2.				
3.				
2023				
1.				
2.				
3.				
2024				
1.				
2.				
3.				
2025				
1.				
2.				
3.				
TOTAL:				

1.2. Compensation payable to the research team members

No.	Expenditure	2022 (mln Rub)	2023 (mln Rub)	2024 (mln Rub)	2025 (mln Rub)
1.	Total compensation payable to the Leading scientist and research team members, including applicable taxes and other social benefits				
1.1.	<i>including compensation payable to young researchers, students, graduate students</i>				

³⁴ Each research equipment item must be accompanied by a list of specifications and an explanation of its ability to contribute to the achievement of the project goals and objectives.

2.	Total number of research team members				
2.1.	<i>including the total number of young researchers, students, graduate students</i>				
3.	Average labor compensation amount payable to a research team member				
3.1.	<i>including the average labor compensation amount payable to a young scientist, student, graduate student</i>				

Section 2. Funding from other sources

2.1. *Planned sources*

No.	Description of other sources	Other sources details	Amount (mln Rub)
1.	Grants		
2.	Financing provided by Russian and foreign investors		
3.	Commercial agreements		
4.	Other		
	Total		

Leading Scientist

Leading scientist's signature

Leading scientist's surname, first name, patronymic

Deputy Head of the project
(from NUST «MISiS»)

patronymic

Scientist's signature

Leading scientist's surname, first name,

Form A. Application Registration

Name of competition	Full name of the Leading Scientist	Residence country	Place of work (University, department)	The Leading scientist post	Leading scientist's H-index in "Web of Science" (attach a screenshot of the page)	Number of articles referenced in the "Web of Science"	Citation index in the "Web of Science"	Name of the strategic project (clause 3.2 of the tender documentation)	Project title	Field of Science	Direction of scientific research (no more than five directions are selected according to Appendix 1)	Requested Funding	Person in charge on behalf of NUST "MISiS" (name, telephone, e-mail*)	Indicate from which department the application is submitted (Institute, department / laboratory *)

*Required to fill.

APPENDIX 1

Rank	Research areas
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

Rank	Research areas
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
67	MECHANICS
68	MEDICINE, RESEARCH & EXPERIMENTAL
69	METALLURGY & METALLURGICAL ENGINEERING
70	MICROBIOLOGY
71	MICROSCOPY

Rank	Research areas
72	MINERALOGY
73	MINING & MINERAL PROCESSING
74	MULTIDISCIPLINARY SCIENCES
75	NANOSCIENCE & NANOTECHNOLOGY
76	NUCLEAR SCIENCE & TECHNOLOGY
77	ONCOLOGY
78	OPTICS
79	PHARMACOLOGY & PHARMACY
80	PHYSICS, APPLIED
81	PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
82	PHYSICS, CONDENSED MATTER
83	PHYSICS, FLUIDS & PLASMAS
84	PHYSICS, MATHEMATICAL
85	PHYSICS, MULTIDISCIPLINARY
86	PHYSICS, NUCLEAR
87	PHYSICS, PARTICLES & FIELDS
88	ROBOTICS
89	SOCIAL SCIENCES, MATHEMATICAL METHODS
90	SPECTROSCOPY
91	TELECOMMUNICATIONS
92	THERMODYNAMICS
93	TOXICOLOGY
94	TRANSPLANTATION
95	TRANSPORTATION
96	TRANSPORTATION SCIENCE & TECHNOLOGY
97	WATER RESOURCES