

**Terms and conditions of the call of projects for the implementation of research and developments of the National Research Foundation of Ukraine
‘Science for the Recovery of Ukraine in the War and Post-War Periods’**

I. GENERAL INFORMATION ABOUT THE CALL

1.1. The title of the call is ‘Science for the Recovery of Ukraine in the War and Post-War Periods’ (hereinafter – Call).

1.2. The purpose of the call is to finance collective research projects aimed at solving urgent issues of recovery of Ukraine in the war and post-war periods.

The call selection is carried out in accordance with the Procedure for call selection and financing by the National Research Foundation of Ukraine of projects for the implementation of research and developments, approved by the Decree of the Cabinet of Ministers of Ukraine on December 27, 2019, № 1170 (with amendments made in accordance with the Decree of the Cabinet of Ministers of Ukraine of May 3, 2022, No. 536).

1.3. Thematic areas of the Call must correspond to at least one of the priority directions of the development of science and technology (in accordance with Article 3 of the Law of Ukraine ‘On Priority Areas of Science and Technology Development’); is carried out in areas related to the implementation of applied research and developments aimed at restoring the production of goods and services or bringing Ukraine to a new level of competitiveness (including in the space industry), developing new technologies and creating new materials for the restoration of industrial production, solving environmental problems that arose as a result of military operations, overcoming public health disorders caused by the war, solving food and energy security issues, solving acute social issues, comprehensive rehabilitation of various population groups associated with war injuries, strengthening the protection of facilities critical infrastructure (including in the context of cyber security), preservation of cultural heritage (namely, restoration, reconstruction, conservation of cultural monuments, digitization, etc.) that suffered as a result of military operations and/or occupation.

The purpose of the project must be determined jointly with a legal entity (enterprise, institution, organization, regardless of the form of ownership, except for public organizations) which is interested in implementing the results of the project and voluntarily undertakes to test the results of the project in practice and implement them in case positive test result.

Partial financing of the project by an interesting legal entity is not a direct condition for participation in the Call, but when conducting a scientific and technical reviewing of the project, the expert will take into account the total amount of research work planned in the project. Partial financing of the project by third-party organizations at the expense of the general fund of the State Budget is not allowed. There are no restrictions regarding the form of ownership of the legal entity that supports the project or the scale of the future implementation for participating in the Call, but experts will evaluate the importance of the results for the development of the economy, social sphere, and cultural sphere of Ukraine.

Property rights to intellectual property created during research and developments at the expense of grant support belong to the grant recipient, except for the cases provided for in the second part of Article 11 of the Law of Ukraine ‘On State Regulation of Transfer of Technology Activities’.

1.4. The topics of the projects must correspond to at least to one of the priority areas of science and technology development (in accordance with Article 3 of the Law of Ukraine ‘On Priority Areas of

Science and Technology Development’).

Works whose content constitutes a state secret (in accordance with the Law of Ukraine ‘On State Secrets’) will not be accepted for consideration at the Call.

1.5. Duration of projects to be selected based on the results of the call:

Projects implementation is foreseen in 2023-2024, there are two intermediate stages:

- first intermediate stage of project implementation;
- second (final) intermediate stage of project implementation.

The end of each intermediate stage is adjusted taking into account the end of the relevant financial year*.

The start of project implementation is planned from August 2023; the implementation of projects in 2024 will be carried out taking into account and in accordance with the budget revenues in the year.

* Planning of the duration of intermediate stages of project implementation for 2023-2024 should be carried out taking into account the deadlines for processing the reporting documentation provided by the grant recipient to confirm the implementation of the first intermediate stage of project implementation and the second (final) intermediate stage of project implementation (14 calendar days from the end of each intermediate stage of project implementation). The duration of the intermediate stages of the project implementation for 2023-2024 planned in the application can be adjusted at the time of concluding the contract for research and development through grant support, taking into account and in accordance with budget revenues in the relevant year.

1.6. Total volume for financing applied research and developments projects to be selected based on the results of the call

The total amount of funding for the call in 2023 is up to **UAH 150 mln** (in accordance with budget revenues, in accordance with the risk).

The total sum of funding for the Call in 2023 is up to UAH 150 million. (in accordance with budget revenues, taking into account the risk of possible redistribution of funds and taking into account the risks connected with the effect of martial law on the territory of Ukraine).

The maximum sum of funding for one project is UAH 4,5 million (UAH 1,5 million in 2023 and UAH 3 million in 2024).

The planned total funding of the call is up to UAH 450 million.

By submitting an application for the call, participants of the call confirm that they have fulfilled the condition that a project submitted for participation in the call cannot be submitted for participation in another call at the same time in order to receive funding from the budget, as well as when such a project is or has been funded at the expense of budget funds based on the results of another call, including those conducted by the Ministry of Education and Science of Ukraine or other entities.

The conditions and procedure for financing of projects depend on the number of budget allocations provided in the State Budget for the relevant year to finance the activities of the Foundation.

The grant is provided to the grant recipient in the amount of the full or partial cost of works required for project implementation.

Full funding is provided in the case of a project that is not funded from other sources.

Partial funding is provided in the case of the implementation of a project that is simultaneously funded from several sources. In this case, the Foundation determines the specific scope of work and

the amount of financial support that will be provided by the Foundation for the implementation of such a project, taking into account the total estimated cost of the project and the amount of financial support provided by other sources.

Projects are financed by the grantor's gradual transfer of funds from its registration account to the grant recipient's accounts in accordance with the Agreement concluded between the Foundation and the winning organization (grant recipient), according to the Schedule of financing of the project on the performance of research and development, within the limits of actually received by the grantor of financing.

Unused funds during the relevant intermediate stage of the project shall be refunded to the registration account of the Foundation within five working days after the completion of the relevant intermediate stage of the project.

All costs for each stage of project implementation must be incurred before the completion of the relevant intermediate stage of project implementation. Under this call, the Foundation's grant funds may be provided for the following cost items:

1) Direct costs:

- payment of labor;
- accrual for labor remuneration;
- materials required for the performance of works, except for equipment and facilities;
- equipment and facilities;
- business trip expenses.

2) Indirect costs:

The total sum of **indirect costs** (costs that are not directly related to research and developments (hereinafter – R&D) but are necessary to ensure the full implementation of R&D) cannot exceed 15% of the total cost of ‘Direct costs’. Such costs may include:

- payment of utility costs associated with the implementation of R&D;
- remuneration of staff, in particular, employees of financial services, employees of legal services, etc., who will be involved in servicing the Contract. Such costs may not exceed 30% of the total cost of ‘Indirect costs’.

3) Other costs – (if necessary) – costs that are not reflected in the above-mentioned cost items, but are necessary for R&D, in particular costs of services. This cost item may include: costs for publications, obtaining patents, translation, rental of research equipment, costs for access to databases, libraries, etc.

Note: see ‘Methodological recommendations for cost planning on the implementation of research (development) through grant support of the National Research Foundation of Ukraine’.

Expenses for all items must be justified.

If the project provides for the purchase of equipment and facilities worth more than UAH 200 thousand per unit through grant support of the Foundation, the application must contain a document with a detailed feasibility study of the need to purchase it for the project implementation, namely:

- 1) confirmation that the equipment and facilities planned for the purchase are not available to the call participant;
- 2) detailed justification of the need, suitability and effectiveness of the use of such equipment and facilities for the planned research (development), taking into account the impact of the latter on the research capacity of the call participant;
- 3) description of the main characteristics of the equipment and facilities required for research

(development);

4) detailed confirmation availability of the necessary conditions for installation, operation and maintenance of such equipment and facilities (room, maintenance of the required temperature / lighting / humidity / other conditions in it, appropriate qualified technical personnel, etc.) by the participant. If the equipment requires specially prepared rooms / conditions - a description of the funds for which these works will be performed);

5) if the application provides for the purchase of equipment and facilities outside Ukraine, it is necessary to provide a justification for the impossibility of purchasing such equipment in Ukraine and the possibility of its delivery from abroad in due time;

6) a description of the prospects for the use of equipment and facilities that are planned to be purchased after the completion of the project;

7) commercial proposals (not less than from 2 different suppliers)* with details of the cost, terms and conditions of delivery of equipment with reference to the websites of suppliers are attached to the feasibility study. If the equipment is unique (has no analogues on the market), and in the absence of the opportunity to provide two commercial proposals, a justification must be provided (documentary evidence of lack of call in the market for such equipment);

8) if the project provides for the purchase of equipment and facilities worth more than UAH 600 thousand per unit through grant support of the Foundation, the feasibility study must include information on unavailability of analogues in other institutions in Ukraine;

9) if the project provides for the purchase of equipment and facilities worth more than UAH 600 thousand per unit through grant support of the Foundation, and that potentially can be used collectively, the feasibility study must include information on specific measures for providing collective use of this equipment after the end of the project.

If the project provides for the purchase of equipment and facilities worth more than UAH 200 thousand per unit through grant support of the Foundation, employees of financial services, structural units responsible for procurement (tenders) and other interested units of the call participant's institution must be involved in the preparation of the feasibility study.

Note 1: Feasibility study for the purchase of equipment and facilities for the project implementation is signed by the head of the institution (organization) participating in the call, the head of the financial department of the institution participating in the call and the project PI.

Note 2: items 1-7 are mandatory for all applications, which provide for the purchase of equipment and facilities worth more than UAH 200 thousand per unit, items 8-9 are fulfilled if necessary.

After the announcement of the results of the Call, the winning institution submits a declaration (if the project involves the purchase of equipment and facilities with a total cost of more than UAH 600 thousand at the expense of a grant from the Foundation), in which the head of the winning institution of the Call and the PI of the project confirm that the project will be implemented in the institution winners in full, according to the application for receiving grant support; the institution has a material and technical base, organizational resources and a team of performers, which allows ensuring the full implementation of the project; the equipment that will be purchased at the expense of the grant will be used for its intended purpose (for the purpose of completing project tasks and implementing the project in full).

Upon completion of each of the intermediate stages of the project, defined in the contract for research and development through grant support, the grant recipient submits to the Foundation scientific reports on the interim results of the project and financial statements on the use of budget funds, which are a prerequisite for termination of grant support for the project, as well as other documentation provided for in the Agreement concluded between the Foundation and the grant recipient. The decision to extend or terminate the grant support is made by the scientific council of the Foundation on the proposal of the relevant scientific council of the section of the Foundation.

*The PI of the project must inform the supplier about the submission of a commercial offer to the

Foundation as a component of the application. The supplier's refusal to confirm the offer is reason for rejection of the application on formal grounds (due to non-compliance with the conditions of the Call).

Within all projects of the Foundation in which the PI and any implementer participates in the relevant year, the maximum monthly salary of the PI and each implementer may not exceed 10 minimum wages in Ukraine, set at the beginning of the year in which the relevant payment is to be committed. The project estimate should indicate the employment (by month) of the PI and each project implementer.

The following cannot be financed by grant funds: costs not directly related to the project implementation (in particular, payment for intermediary services, purchase of goods, performance of works, provision of services that are not related to the project implementation); payment for goods, works and services that were or will be financed from other sources before or after signing the contract; maintenance costs for institutions and organizations, including those who are participants of the Call.

II. REQUIREMENTS FOR CALL PARTICIPANTS, PI AND PROJECT IMPLEMENTERS*

***The requirements are formulated in accordance with the Agreement on reforming research assessment**

(https://coara.eu/app/uploads/2022/09/2022_07_19_rra_agreement_final.pdf)

2.1. General requirements. Call participants (the institution (organization) on whose behalf the application for grant support (hereinafter - the application) is submitted can be higher education institutions and state-owned research institutions.

Teams of project authors (PI and implementers) consisting of from 6 to 15 researchers are eligible to submit applications.

The number of early-career researchers in the team of authors cannot be less than 2 persons for a team of authors from 6 to 10 people inclusive, less than 3 people for a team of authors from 11 to 15 people inclusive.

Note: early-career researcher is a researcher under the age of 35, inclusive, who has a higher education not lower than the second (master's) level, or a researcher under the age of 40, inclusive, who has a scientific degree of Doctor of Sciences (Sc.D.).

The application may additionally provide for the involvement of up to 3 assistants from among early-career researchers and students in the implementation of the project without specifying their surnames; such assistants are not counted as members of the team of project authors, but the need for their involvement (indicating the number of persons) must be justified in the application.

The team (authors of the project) can consist of researchers representing one institution (organization), as well as researchers working in different institutions (organizations). One natural person cannot be represented in more than one application submitted for this Call and cannot be represented in the application for this Call if he/she is already a member of the team of authors of another winning project (not completed or not started) of the National Research Foundation of Ukraine (hereinafter – the Foundation).

The PI of the project must be a researcher who works **at the main place of work** in the institution (organization) applying for participation in the Call.

The PI and at least one implementor of the project must have a scientific degree obtained or recognized in Ukraine, scientific papers in periodicals indexed by Scopus or WoS, and/or scientific monographs (for Social Sciences and Humanities) in the relevant field of knowledge.

Project implementers cannot work in a foreign institution at their main place of work.

Staff of the Foundation's Directorate, members of the Foundation's Scientific Council, the Scientific Committee of the National Council for the Development of Science and Technology, members of the Call Commission and experts involved in the scientific and technical reviewing of projects under this Call are not eligible to be project PI and implementers.

Persons who were the authors of projects whose grant support was terminated by the decision of the Scientific Council of the Foundation due to improper fulfillment of the terms of the contract on the implementation of research and developments at the expense of grant support and to whom Clause 2 of the Restrictive Measures was applied, grant support of which was terminated by the decision of the Scientific Council of the Foundation due to improper implementation of research and developments and based on the results of the evaluation of the quality of project implementation and publication/disclosure of the results, are not eligible to participate in the Call.

Persons who were the authors and signed the final report on the implementation of projects to which Clause 1 of the Restrictive Measures Applied to the Authors of Projects was applied, whose grant support was terminated by the decision of the Scientific Council of the Foundation due to improper implementation of research and developments and based on the results of the assessment, was applied the quality of project implementation and publication/disclosure of results, are not eligible to participate in the Call until the Scientific Council of the Foundation adopts the appropriate decision regarding the provided information and relevant documents.

The PI of the project is responsible for the reliability of the information contained in the application and the documents attached. The consequence of providing inaccurate information is the removal of the project from the Call.

Violation of these requirements is grounds for rejection of all applications where a person who has violated the above requirements is represented.

2.2. Only a researcher who has scientific degree obtained or recognized in Ukraine, has scientific publications in periodicals indexed by Scopus or WoS, meets 6 or more criteria in the questionnaire of the PI of the project, works at the main place of work in the institution (organization) applying for participation in the Call can be the **PI of a project in Mathematical, Natural, Technical, Biological, Agricultural and Medical Sciences**:

Note 1: This information must be clearly stated in the application, which is accompanied by:

- CV in the relevant form (in Ukrainian and English);
- the questionnaire of the PI of the project in the relevant form (in Ukrainian and English), which are downloaded as separate files and will be evaluated by experts.

2.3. Only a researcher who has scientific degree obtained or recognized in Ukraine, works at the main place of work in the institution (organization) applying for participation in the Call, has scientific publications in professional periodicals indexed in Scopus and/or WoS and/or is the author (or one of the co-authors, no more than 3) of a scientific monograph published within the last 5 years in Ukraine, which won an award (prize, distinction) in national or international calls, or received at least three positive reviews published in professional journals scientific periodicals and also meets 6 or more criteria in the questionnaire of the PI of the project **can be the PI of a project in the Social Sciences and Humanities**.

Note 2: This information must be clearly stated in the application, which is accompanied by:

- CV in the relevant form (in Ukrainian and English);
- the questionnaire of the PI of the project in the relevant form (in Ukrainian and English), which are downloaded as separate files and will be evaluated by experts.

2.4. Features of project implementation.

During the implementation of the project, the PI or project implementers may work in foreign institutions with monetary remuneration (compensation) in total for no more than 3 months per year and during this time may not receive wages or other payments from the Foundation's grant funds. In the case of such circumstances, the PI of the project must inform the Foundation about the terms and conditions of such work.

A project submitted for participation in the Call cannot be simultaneously submitted for participation in another call for the purpose of receiving funding from budget funds, as well as in the case when such a project is financed or was financed from budget funds as a result of another call.

The fact that the project is financed by the Foundation from the state budget, the number and name of the project must be indicated in all publications, official notices, information for the mass media, social networks, in other open sources and during speeches at scientific events for the purpose of presenting research results.

III. DOCUMENTS SUBMITTED FOR PARTICIPATION IN THE CALL

Documents for participation in the Call are submitted in Ukrainian and English in electronic form on the website of the Foundation (<https://nrfu.org.ua>) (using the 'NRFU Project Call' Software). Replacement or clarification of the submitted documents by the participant of the Call after the deadline for submission of applications is not allowed.

To participate in the Call, it is necessary to **submit an application for receiving grant support** (in Ukrainian and English) certified by a qualified electronic signature of the project PI, **as well as documents submitted by the participant of the call along with the application.**

Documents submitted by the participant of the call along with the application (in the electronic system of the Foundation):

1. Consent of the authors of the project to its implementation (a mark in the electronic system of the Foundation using a qualified electronic signature through the personal account of the performer).
2. Consent of the head of the institution (organization) on whose behalf the application for the implementation of the project is submitted (in Ukrainian), signed by the head of the institution (organization) (scanned copy).
3. Certificate (in Ukrainian) from the place of work of the project PI **with the mandatory indication** that the project PI works **at the main place of work** in the institution (organization) on behalf of which the application is submitted (scanned copy).
4. Statement signed by the head of the institution (organization), on behalf of which the application is submitted regarding the compliance of the Call participant with paragraph 5 of the criteria for assessing the admissibility of state aid to economic entities for conducting research, technical development and innovative activities, approved by the Decree of the Cabinet of Ministers of Ukraine of February 7, 2018 No. 118 (in Ukrainian) (scanned copy).
5. CV of the project PI (scanned copies in Ukrainian and English).
6. Questionnaire of the project PI (scanned copies in Ukrainian and English).
7. Support letter for the project from the legal entity interested in implementing the results of the project (in Ukrainian, scanned copy).
8. Technical and economic justification of the need to purchase equipment and facilities (in Ukrainian) signed by the head of the institution (organization) on behalf of which the application is submitted, the head of the financial division of the institution (organization) on behalf of which the

application is submitted and the project PI (if the project involves purchase of equipment worth more than UAH 200 thousand per unit) (scanned copy).

9. Letter of guarantee from the legal entity interested in implementing the results of the project (if partial financing of the project is envisaged, in Ukrainian, scanned copy).

Documents that the **institution-winner of the Call** provides to the Foundation in paper form (originals certified by signatures and seals):

1. Agreement on the implementation of research and development at the expense of grant support (hereinafter – the Agreement).

2. Consent of the head of the institution (organization) to implement the project (in Ukrainian) signed by the head of the institution (organization).

3. A certificate (in Ukrainian) from the place of work of the project PI **with a mandatory indication** that the project PI works **at the main place of work** in the institution (organization) on behalf of which the application is submitted.

4. A statement signed by the head of the institution (organization) on behalf of which the application is submitted regarding the call participant's compliance with item 5 of the criteria for assessing the admissibility of state aid to economic entities for conducting research, technical development and innovation activities, approved by the Decree of the Cabinet of Ministers of Ukraine of February 7, 2018 No. 118 (in Ukrainian).

5. CV of the project PI (scanned copies in Ukrainian and English).

6. Questionnaire of the project PI (scanned copies in Ukrainian and English).

7. Support letter for the project from the legal entity interested in implementing the results of the project (in Ukrainian, scanned copy).

8. Technical and economic justification of the need to purchase equipment and facilities (in Ukrainian) signed by the head of the institution (organization) on behalf of which the application is submitted, the head of the financial division of the institution (organization) on behalf of which the application is submitted and the project PI (if the project involves purchase of equipment worth more than UAH 200 thousand per unit) (scanned copy).

9. Letter of guarantee from the legal entity interested in implementing the results of the project (if partial financing of the project is envisaged, in Ukrainian, scanned copy).

A necessary condition for participation in the Call is the support of the project by a legal entity that is interested in implementing the results of the project. Such support is formalized in an official letter (support letter), which must contain:

- the title of the project and the name of its PI;
- a brief description of the specific results expected by the interested legal entity and how the implementation of such results will contribute to the reconstruction of Ukraine;
- the obligation to test the results of the project in practice in case of achieving its goal and, in the case of positive experience, to implement the results;
- information about the legal entity interesting (in particular, EDRPOU code, contact person data, telephone and e-mail address);
- consent to the publication in the mass media of information about the support of the project by the interested legal entity (without disclosure of commercial secrets, data on unregistered inventions, etc.), the results achieved, the progress of approval and implementation after the completion of the project without a time limit.

In the case of partial financing of the project, the participant of the Call provides a guarantee letter (in Ukrainian) about the commitment to provide financing and its volume from a legal entity that is interested in implementing the results of the project, signed by the head or other authorized person of such an institution (organization), the head financial division of such an institution (organization).

IV. TERMS AND CONDITIONS, TIME AND PLACE OF THE CALL

The terms and conditions of the call selection are specified in all paragraphs of this document compliance with which is mandatory.

The call is held from 20.12.2022 to 30.06.2023.

Venue of the call: Kyiv, Borysa Hrinchenka Street, 1

V. PROCEDURE OF ACCEPTANCE (RECEPTION), REGISTRATION AND PRELIMINARY CONSIDERATION OF APPLICATIONS

To submit an application, the PI and project implementers must go through the pre-registration procedure on the official website of the Foundation. The applicant is identified during registration by using a qualified electronic signature.

The participant of the call has the right to withdraw the application before the end of the deadline for its submission, about which the project PI informs the Call Commission via e-mail: support@nrfu.org.ua

Preliminary consideration of the application regarding compliance with the requirements for its design, completeness and authenticity of the submitted information is carried out by the Call Commission (with organizational and technical support of the Directorate of the Foundation) within 15 (fifteen) working days after the application submission deadline.

The decision of the Call Commission to reject the application on formal grounds and/or withdraw the application from consideration based on non-compliance with the criteria by which projects are selected, determined by the terms and conditions of the call, is notified by the Foundation's Directorate to the relevant participant of the call in electronic form no later than 3 (three) working days after the adoption of such decision.

Reasons for rejecting an application on formal grounds:

- non-compliance of the submitted project with the purpose, subject or conditions of the Call (justification of such compliance must be provided in the text of the application);
- non-compliance of the application submitted by the Call participant with the form provided by the Call conditions;
- submission of documents by the participant of the Call is not complete or the volume of documents exceeds the established requirements;
- lack of information provided by the terms and conditions of the call in the documents submitted by the Call participant;
- indication of inaccurate information in the documents submitted by the participant of the Call;
- the project PI and/or implementers are represented in more than one application submitted to the Call;
- the PI and/or implementers of the project are already a member of the team of authors of another winning project (not completed or not started) of the other Foundation's call.

VI. REPORTING

After the completion of the first intermediate stage of the project implementation defined in the Agreement, the grant recipient submits to the Foundation a Report on the intermediate results of the project implementation and a Financial Report on the use of budget funds, which are a prerequisite for making a decision on the continuation or termination of grant support for the project. The Report on the intermediate results of the project must be accompanied by a letter from the legal entity that provided support to the project and undertook to approve and implement the results, with

an assessment of the results obtained and a conclusion on the expediency of continuing the work or adjusting the Project Plan.

The decision to extend or terminate grant support is made by the Scientific Council of the Foundation at the request of the relevant section of the Scientific Council of the Foundation.

Based on the results of the work and within the deadlines specified in the Agreement, the grantee shall send to the Foundation:

- Report on the intermediate results of project implementation, issued in accordance with DSTU 3008: 2015 'Information and documentation. Reports in the field of science and technology. Structure and rules of design' – in electronic form and one bound paper copy;
- Financial Report on the use of budget funds - in electronic form and one paper copy;
- other documentation provided for in the Agreement concluded between the Foundation and the Grantee.

The reports are reviewed and approved by the Scientific Council of the Foundation. The approval of these documents is the basis for signing the Act on the implementation of the intermediate stage of the project.

The grantee also submits an annotated report on the work performed within the framework of project implementation, which, together with the report on the use of budget funds within the framework of project implementation, is posted on the official website of the Foundation within 5 (five) working days after the approval of the reporting documentation.

After the completion of the project implementation (the second intermediate stage), the Grantee submits to the Foundation a Final Report on its implementation and a certificate of implementation from the legal entity that provided support to the project and undertook the approval and implementation of the results, with an assessment of the results obtained and the prospects for their implementation. Information on the results of the project implementation together along with the final report, a letter from the legal entity that provided support to the project and undertook the approval and implementation of the results, with an assessment of the results obtained and the prospects for their implementation (implementation certificate), and a report on the use of budget funds as part of the implementation of the project, within five working days, it is placed on the official website of the Foundation for the free access in the form of open data in accordance with the Law of Ukraine 'On Access to Public Information'.

VII. DEADLINES FOR THE SUBMISSION AND CONSIDERATION OF APPLICATIONS, THE CONDUCT OF SCIENTIFIC AND TECHNICAL REVIEWING OF PROJECTS AND SUMMARIZATION OF THE CALL RESULTS

Date and time of the beginning of submission of applications: 23.12.2022, 00:01 Kyiv time.

Date and time of completion of application submission: 31.01.2023, 23:59 Kyiv time.

Conducting scientific and technical reviewing and summarizing the results of the call: until 30.06.2023.

Information about the results of the call is posted on the official website of the Foundation and includes:

- 1) the decision of the Scientific Council of the Foundation to approve the results of the call;
- 2) a list of projects recommended for implementation at the expense of grant support from the Foundation;
- 3) volumes of financing of projects recommended for implementation at the expense of grant support from the Foundation;
- 4) a rating list of projects with an indication of the points received by each project.

The participants of the call are sent by e-mail a text justification of the evaluations received by the

project based on the results of scientific and technical reviewing.

After the Foundation has adopted a decision on granting a grant, an Agreement is concluded between the Foundation and the institution that is the winner of the Call, which defines all the necessary conditions for the implementation of the project, including the responsibility of the Grantee and the application of fines for non-fulfillment or late fulfillment of its obligations.

The term of the conclusion of the Agreement should not exceed 30 calendar days from the moment of adoption of the decision on granting the grant. If due to the fault of the winning institution, the Agreement between he/she and the Foundation is not concluded within the specified period, it is considered that the winning institution has refused further implementation of the project.

VIII. THE NUMBER OF EXPERTS CONDUCTING SCIENTIFIC AND TECHNICAL REVIEWING OF THE PROJECT

The scientific and technical reviewing of the project submitted to the Call is carried out by 3 experts.

IX. CRITERIA FOR PROJECT SELECTION AND NUMERICAL EVALUATION INDICATING THE ORDER OF PRIORITY AND COEFFICIENTS OF CERTAIN CRITERIA

The selection of projects is carried out in accordance with the procedure specified in the Procedure for consideration and reviewing of projects for research and developments submitted to the National Research Foundation of Ukraine for participation in the call selections, approved by the Scientific Council of the National Research Foundation of Ukraine from September 5, 2022.

<https://nrfu.org.ua/wp-content/uploads/2022/11/poryadok-rozglyadu-ta-ekspertyzy-proyektiv-iz-vykonannya-naukovyh-doslidzhen-ta-rozrobok...pdf>

1. Projects are evaluated by independent experts according to the form and criteria approved by the Scientific Council of the Foundation
2. Each project is evaluated on the following aspects with appropriate weights:
 - the quality of the planned research, its innovativeness;
 - the significance of the project for further development of science/technique/technology/society (according to the direction of the project);
 - quality and realism of the proposed project implementation plan;
 - scientific achievements of the project implementers.
3. Each aspect includes several evaluation criteria that have their own weights.
4. Evaluation of each criterion is carried out by an expert on a 5-point scale with the obligatory provision of appropriate justification.
5. The number of points for an aspect is calculated as the arithmetic mean of the weighted points according to the evaluation criteria for this aspect.
6. The total number of project points is calculated as the arithmetic mean of the weighted points by aspects, multiplied by 20.
- 7 During the evaluation of the project for each criterion a 5-point scale with the following value of points is used:

0	The project does not meet the criteria or cannot be assessed due to lack of or incomplete information provided by this criterion.
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1 – Bad	Information on the criteria evaluated are not presented properly or it has critical flaws.
2 – Satisfactorily	In general, the project meets the criteria, but there are significant shortcomings.
3 – Good	The project meets the criteria, but there are some shortcomings.
4 – Very good	The project meets the criteria very well, but improvements are possible.
5 – Perfect	The indicator fully meets the criteria.

The following aspects, their weights and form are used to evaluate the project in this call:

Evaluation criteria	Rating scale	Weighting factor
<p>1. Quality of the planned research. This section provides an assessment of the justification and significance of the research project, its focus on solving current (urgent) scientific problems, clarity of goal and objectives, their compliance with the current level of scientific achievements, novelty of scientific ideas, originality of scientific hypothesis, correct choice of methodology and research methods for testing a scientific hypothesis.</p>	<p>From 0 to 5 The number of points on the aspect is calculated as the arithmetic mean of the weighted points on the criteria.</p>	0.2
<p>1.1. Motivation and validity of the scientific concept: whether the current state of research and the problems that need to be solved are adequate and with appropriate references.</p>	0-5	0.3
<i>Comments:</i>		
<p>1.2. Novelty of scientific ideas (including from the standpoint of interdisciplinarity if the research is multidisciplinary).</p>	0-5	0.3
<i>Comments:</i>		
<p>1.3. Clarity and relevance of the stated purpose and objectives of the research</p>	0-5	0.2
<i>Comments:</i>		
<p>1.4. Adequacy of the proposed approaches and research methods, their compliance with the purpose and objectives of the project.</p>	0-5	0.2

<i>Comments:</i>		
	Average weighted score	
2. Significance of the project for further development of science / technique / technology / society (according to the direction of the project).		
<p>This section provides an assessment of the clarity of definition and argumentation of the prospects for further application of research results for the development of science and new technologies, as well as the possibility of implementing research results in the economic and social spheres. The completeness and potential efficiency of publishing the results of the research, the possibility of commercialization of the project achievements are taken into account.</p>	<p>From 0 to 5</p> <p>The number of points on the aspect is calculated as the arithmetic mean of the weighted points on the criteria.</p>	0.3
2.1. Potential importance of expected results and acquisition of new knowledge, development of new approaches and technologies and / or their significance for solving current practical scientific / technical / social problems.	0-5	0.5
<i>Comments:</i>		
2.2. Effectiveness and relevance of planned ways of publishing / using research results (expected professional publications, presentations at international scientific conferences, dissemination of research results to the public).	0-5	0.5
<i>Comments:</i>		
	Average weighted score	
3. Quality and realism of the proposed project implementation plan.		
<p>Within this section, the validity of the work plan and the clarity of intermediate goals, their logical sequence are assessed; clarity of the description of the planned tasks with the indication of concrete results which can be checked; consistency of complexity of tasks with their time frame; compliance of equipment and materials specified as necessary for the project</p>	<p>From 0 to 5</p> <p>The number of points on the aspect is calculated as the arithmetic mean of the weighted points on the criteria.</p>	0.3

implementation, implementation of its purpose and objectives; clarity of description of equipment and materials and adequacy of their price in the budget.		
3.1. Validity of the work plan, compliance with the time frame of complexity of the formulated stages and tasks, clarity of intermediate goals, their logical sequence.	0-5	0.25
<i>Comments:</i>		
3.2. Correspondence of material and technical base, equipment (available and planned) to the set task.	0-5	0.25
<i>Comments:</i>		
3.3. Balance and validity of the overall project budget.	0-5	0.25
<i>Comments:</i>		
3.4. Availability and validity of assessment of possible risks and predicting of ways to prevent or resolve them.	0-5	0.25
<i>Comments:</i>		
	Average weighted score	
4. Scientific achievements of the project implementers	From 0 to 5 The number of points on the aspect is calculated as the arithmetic mean of the weighted points on the criteria.	0.2
4.1. Quality of publications of the project PI for the last 10 years.	0-5	0.3
4.2. Quality of publications of the project implementers for the last 10 years.	0-5	0.3
4.3. Balance of the team of implementers: correspondence of the number of implementers and the level of their qualification to the purpose and tasks of the project.	0-5	0.2
4.4. Participation of the project PI and implementers in scientific programs funded by domestic and international organizations and institutions (in particular, grants) for the last 5 years.	0-5	0.2
	Average weighted score	

	Total project score: arithmetic mean of the weighted points by aspects, multiplied by 20	
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Algorithm for forming the final numerical evaluation of applications

Curators analyze the set of expert opinions on the project and report on the results on the Panel meeting. For each project, the R-indicator of the discrepancy of the estimates S_1 , S_2 and S_3 set by three experts:

$$R = \frac{SD}{S} \cdot 100\%,$$

where S is the arithmetic mean of the grades, ie

$$S = \frac{S_1 + S_2 + S_3}{3},$$

SD – standard deviation:

$$SD = \sqrt{\frac{(S_1 - S)^2 + (S_2 - S)^2 + (S_3 - S)^2}{3}}.$$

1. If the discrepancy index R does not exceed the critical value of 20%, the final numerical score of the application is defined as the arithmetic mean S of the expert estimates.

2. If the discrepancy rate exceeds the critical value of 20%, then:

a) each member of the Panel ($j=1, \dots, N$, where N – number of Panel members) determines the degree of validity of k_{ij} of each of the expert assessments S_i , $i=1, \dots, 3$ in points from 1 (bad) to 5 (good);

b) the final numerical evaluation of the application is calculated as the weighted average of the expert evaluations:

$$S = S_1\beta_1 + S_2\beta_2 + S_3\beta_3,$$

where

$$\beta_i = \frac{\sum_{j=1}^N k_{ij}}{\sum_{i=1}^3 \sum_{j=1}^N k_{ij}}, \quad i = 1, 2, 3.$$

X. CONTACT INFORMATION

For information related to the competitive selection and submission of projects, please contact the Foundation's contact persons:

Subject matter	Contact department
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Questions on submission of projects in Natural, Technical Sciences and Mathematics	Grant Support Department in the Field of Technical and Natural Sciences, Mathematics, and IT natsci.2022.01@nrfu.org.ua
Questions on submission of projects in Biology, Medicine and Agricultural sciences	Grant Support Department in the Field of Biology, Healthcare and Bioresources lifesci.2022.01@nrfu.org.ua
Questions on submission of projects in Social Sciences and Humanities	Grant Support Department in the Field of Social Sciences and Humanities socsci.2022.01@nrfu.org.ua

Phone for inquiries: +(38) 044 298 16 29

For technical support, please contact us via e-mail address: support@nrfu.org.ua

Email for inquiries: nrfu@nrfu.org.ua

Note: These communication channels are available during business hours only.

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