

The present English translation of the announcement has no legal force and is provided for the convenience of international candidates only. The conditions in the officially signed Italian version of the announcement (bando) shall be binding and prevail in all respects. The Italian law shall apply.

CALL N. BR IFN-01-2024-MI

SELECTION PROCEDURE FOR N° 1 (one) RESEARCH GRANT (Borsa di Ricerca) IN THE SCIENTIFIC AEREA " PHYSICAL SCIENCES AND TECHNOLOGIES OF MATTER" FOR COLLABORATION TO RESEARCH ACTIVITIES in the framework of the Project "POC-MISE 2 - BISTROT – IFN - INO - IMM (Bifacial SpecTRal splitting Optical concentrator for 4-Terminal photovoltaics), Programma AMICO 2 "Programma di incentivo e sostegno alle attività di Applicazione, MIGlioramento e COstruzione dei trovati brevettati" sostenuto dal Bando PoC 2022 - PNRR del MIMIT-UIBM nell'ambito del Piano Nazionale di Ripresa e Resilienza, Missione 1 – Componente 2 – Investimento 6 – finanziato dall'Unione Europea – Next Generation EU, CUP C28H23000370002 APPOINTED TO CNR-INSTITUTE OF PHOTONICS AND NANOTECHNOLOGY, PIAZZA LEONARDO DA VINCI 32 – 20133 MILANO, ITALY.

THE DIRECTOR

WITH REGARD TO Legislative Decree 31 December 2009, n. 213 on "Reorganization of Research Institutions to implement art. 1 of law 27 september 2007", n. 165;

WITH REGARD TO Legislative Decree 25 November 2016, n. 218 on "Simplification of the activities of Public Research Institutions within the meaning of art. 13 of the law 7 August 2015", n. 124;

WITH REGARD TO the Statute of the National Research Council, issued by decree of the President of CNR n. 93 prot. 0051080/2018 del 19/07/2018, published on the website of the Ministry for Education, University and Research on July 25 2018, in force as from August 1° 2018;

WITH REGARD TO the law of 7 August 1990, n. 241, containing new rules regarding administrative procedures and the right of access to administrative documents and subsequent amendments;

WITH REGARD TO the DPR December 28, 2000, n. 445 on "Consolidated laws and regulations on administrative documentation" and successive amendments;

WITH REGARD TO the Law 11 November 2011, n. 183, and in particular art. 15 (Stability Act 2012);

WITH REGARD TO the directive of the Minister of Public Administration and Simplification n. 14/2011 for the application of the new provisions regarding certificates and substitute declarations pursuant to art. 15, of law 12 November 2011, n. 183;

WITH REGARD TO the Law of 4 April 2012, n. 35 conversion of Legislative Decree 9 February 2012, n. 5, containing urgent provisions regarding simplification and development and in particular art. 8 paragraph 1 of the aforementioned Decree;

WITH REGARD TO Legislative Decree 14 March 2013, n. 33 containing "Reorganization of the regulations concerning the obligations of publicity, transparency and dissemination of information by public administrations";

WITH REGARD TO the Legislative Decree 30 June 2003, n. 196, concerning "Code regarding the protection of personal data";

WITH REGARD TO Regulation (EU) no. 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC General Data Protection Regulation published in the European Official Journal of 4 May 2016;

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WITH REGARD TO the Regulations for the awarding of Research Grants at the CNR, approved with Resolution of the CNR Board of Directors n. 54/2023 – Verb 473;

HAVING SEEN the CNR Circular n. 19/2023, Prot. n. 231438/2023 of 07/25/2023;

HAVING ASSURED the coverage of the costs deriving from the award of the grant on the funds coming from the "POC-MISE 2 - BISTROT - IFN - INO - IMM" project expiring on 03/21/2025, cod. ABBREVIATION DFM.AD005.486, CUP C28H23000370002 in implementation of the AMICO 2 Program "Incentive and support program for the Application, Improvement and Construction of patented inventions" supported by the PoC 2022 Call - PNRR of the MIMIT-UIBM within the National Plan of Recovery and Resilience, Mission 1 – Component 2 – Investment 6 – financed by the European Union – Next Generation EU;

ANNOUNCES

Art. 1

Object of the selection

A public selection based on qualifications and interview is announced for the awarding of n. 1 research grant (*scholarship*) for the scientific area "Physical Sciences and Technology of Matter" to be used at the Milan branch of the Institute of Photonics and Nanotechnologies of the CNR, as part of the POC-MISE 2 Project - BISTROT - IFN - INO - IMM (Bifacial SpecTRal splitting Optical concentrator for 4-Terminal photovoltaics), CUP C28H23000370002.

Research grant topic: Spectral division optical solutions for 4-terminal bifacial photovoltaic modules: design and performance and economic analysis in typical conditions of use.

Required qualification: Master's Degree in Physics or Electronic Engineering or Electrical Engineering or Physical Engineering or Energy Engineering, or equivalent.

Scientific Manager (Tutor): Dr. Eng. Silvia Maria Pietralunga

Duration of research grant: The duration of the grant is n. **nine (9) months**, renewable up to a maximum of thirty-six months.

Amount of the Research Grant: The research grant has a **total gross amount of €13,671.00**. Payment is monthly and in advance.

Art. 2

Incompatibility

The scholarship is not compatible with:

- a) other scholarships awarded for any reason, with the exception of those granted by national and foreign institutions useful for integrating the scholarship holder's research activity with stays abroad;
- b) attendance of post-university specialization courses, in Italy and abroad, even in cases where such courses do not provide for the provision of grants or scholarships;
- c) research grants and/or research contracts;
- d) subordinate employment relationships, even for a fixed term, without prejudice to the possibility that the scholarship holder may be placed on leave without pay;
- e) self-employed work, including para-subordinate work, without prejudice to the hypothesis referred to in the following paragraph.

Fellows may carry out self-employed activities not usually carried out, subject to written communication to the Scientific Director and provided that it does not lead to a conflict of interest with the specific activity carried out by the fellow and does not cause prejudice to the CNR in relation to the activities carried out.

Those who have a degree of kinship or affinity, up to the fourth degree, with the Scientific Responsible of the research grant, with the Director or with an employee belonging to the structure hosting the activity cannot participate in procedures for assigning research grants. of the research grant.

Art. 3

Selection admission requirements

Participation in the selection is free without limitations regarding citizenship.

To be admitted to the selection, candidates must possess the following requirements:

a) have obtained a specialist/M.Sc. degree in Physics or in Electronic Engineering or Electrical Engineering or Physical Engineering or Energy Engineering.

Candidates who have obtained a degree declared "equivalent" according to current legislation from a foreign university are also admitted.

The candidate who is not yet in possession of the provision for recognition of the foreign qualification must attach to the application a copy of the request submitted by the deadline for submitting the application;

b) have not reached the age of thirty-five on the deadline for submitting applications;

c) have knowledge of the topic covered by this selection;

d) Certified knowledge of the English language at B2 level;

e) do not have a degree of kinship or affinity, up to the fourth degree, with the Scientific Director of the research grant, with the Director/Head or with an employee pertaining to the structure hosting the research grant activity.

Art. 4

Method of submitting the application for admission

The application for admission to the public selection for the awarding of the research scholarship must be transmitted electronically via the CNR online selection platform (<https://seleziononline.cnr.it>).

The candidate will be able to access the CNR online selections application through credentials obtained through specific registration on the same platform, through SPID (the Public Digital Identity System) or through CIE credentials (Electronic Identity Card). Those who have already participated in a previous selection on the same site will not have to register again.

For further information, consult the Manuals available on the portal Home Page (also viewable without authentication).

The deadline for submitting the application is 15 days starting from the date of publication of the relevant notice in the Official Journal of the Italian Republic and on the CNR website (www.urp.cnr.it).

If the deadline for submitting applications falls on a public holiday, this deadline is intended to be extended to the first non-holiday day immediately following.

The date of submission of the application for participation in the procedure is certified by the IT system which, upon expiry of the deadline for submission, will no longer allow access to the procedure.

The candidate must:

- a) Fill in the **admission request** on the dedicated web platform;
- b) Attach the **curriculum vitae** et studiorum (in PDF format), inserting all the information, both substantial and formal, relating to the qualifications that you intend to submit to the examining commission for evaluation;
- c) Attach the PDF of a valid **identity document** with legible signature;
- d) Print the form (automatically filled out by the procedure with the personal data entered by the candidate when entering the application), concerning **the declarations in lieu of certification and the deed of notoriety**, pursuant to articles. 46 and 47 of the Presidential Decree of 28 December 2000 n. 445, sign it with a legible handwritten signature and attach the same in PDF format or insert the same digitally signed form;

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- e) Print the form (automatically filled in like the previous one), concerning the information on the processing of personal data pursuant to Regulation (EU) no. 2016/679, sign it with a legible handwritten signature and attach the same in PDF format or insert the same digitally signed form;
- f) **Candidates** who have obtained a degree **from a foreign university** must attach to the application the provision recognizing the qualification issued in accordance with current legislation. Alternatively, they can attach to the application a copy of the request for recognition submitted by the deadline for submitting the application;
- g) **Candidates who are citizens of third countries** must also attach to the application a copy of the EC residence permit for long-term residents or certify that they hold refugee status or subsidiary protection status.
- h) **Confirm** the application (flag the option on the webpage) for the production of the receipt.

The computer system issues the receipt of the correct submission of the application. Applications that are not definitively confirmed in the procedure remain in provisional status and will be considered null and void.

Candidates with disabilities, in relation to their disability, in the application to participate in the selection must make an explicit request for any necessary aids (in case of interview).

For any information regarding the research call, you can send an email to: silviamaria.pietralunga@cnr.it and marianna.salvatore@cnr.it.

The self-certifications required for Italian citizens apply to citizens of the European Union. Non-EU citizens residing in Italy can use the self-certification declarations limited to cases in which it is necessary to prove states, facts and personal qualities that can be certified or attested by Italian public or private entities.

Citizens of states not belonging to the European Union, regularly residing in Italy, can use the substitutive declarations referred to in the art. 46 and 47 of the Presidential Decree n. 445/2000, limited to states, personal qualities and facts certifiable or attestable by Italian public entities, or in cases where the production of the declarations takes place in application of international conventions between Italy and the country of origin of the declarant.

The certificates or attestations issued by the competent authorities of the State of which the foreigner is a citizen, certifying status, personal qualities and facts, must be accompanied by a translation into Italian authenticated by the Italian consular authority which certifies their conformity with the original.

The Administration carries out appropriate checks on the truthfulness of the content of the substitute declarations pursuant to art. 71 of the Presidential Decree n. 445/2000.

The substitutive declarations have the same temporal validity as the documents they replace (art. 48 Presidential Decree no. 445/2000).

The candidate must sign that he is aware that false declarations are punishable by law (art. 76 Presidential Decree no. 445/2000).

All communications relating to this selection will be sent to the PEC address of the candidates included in the application, for Italian candidates. For foreign candidates, communications will be sent to the ordinary email address indicated in the application.

Art. 5

Reasons of exclusion from selection

The following constitute reasons for automatic exclusion:

- submitting the application after the deadlines and in ways other than those indicated in the art. 4;
- failure to possess the required educational qualification(s) referred to in the art. 3 letter a);
- the lack of the requirement required by art. 3 letter b) relating to the maximum age limit;

- the lack of any other requirement provided for in the art. 3;
- the verification of any cause of incompatibility referred to in the art. 2.

Candidates are admitted to the selection with reservations. The Director of the Institute may at any time order exclusion from the selection due to failure to meet the prescribed requirements. If the reasons that determine the exclusion are ascertained after the completion of the selection, the Director will provide for the forfeiture of all rights resulting from participation in the selection itself.

Candidates whose declarations in the application for participation in the selection or declarations made pursuant to the Presidential Decree are found to be untrue will also be disqualified. n. 445/2000.

Art. 6

Examining commission, selection methods and ranking

The candidates are judged by a Commission appointed by determination of the Director of the Institute of Photonics and Nanotechnologies, Dr. Caterina Vozzi.

The provision appointing the Commission will be published on the CNR website: www.urp.cnr.it.

The Commission will be made up of three members, one of which will act as President, one external to the CNR and the scientific supervisor responsible for the research, all identified among experts in the subjects being studied indicated in the announcement.

The winner will be selected based on qualifications and interview.

The Commission has a total of 30 points of which: 10 points for qualifications and 20 points for the interview exam.

The categories of securities subject to evaluation are the following:

M.Sc. graduation grade:	maximum score to be attributed:	4 (four)
Less than 80% of maximum score		2 (two)
from 81% to 90% of maximum score		3 (three)
from 91% to 100% of maximum score		4 (four)

Relevance of the degree and/or doctoral thesis referred to in the announcement:
maximum score to be attributed: 4 (four)

Publications and other titles:
maximum score to be attributed 2 (two).

To access the interview, **the candidate must obtain a score of at least 6 points** in the assessment of qualifications.

The interview will be considered passed with a minimum score of **12 points**.

The evaluation of qualifications precedes the completion of the interview.

The interview will focus on the subjects covered by the research grant and will allow foreign citizens to ascertain their knowledge of the Italian language.

The interview may be carried out in English, if the individual candidate requests it.

The interview can also take place remotely. In the case of a videoconference interview, the adoption of technical solutions will be guaranteed to ensure publicity, identification of participants, security of communications and their traceability, in compliance with the legislation on the protection of personal data.

In the invitation to the interview, which will be sent with at least ten days' notice, the score obtained in the evaluation of the qualifications, the date and place of the interview, if in person, or the platform that will be

used for the interview will also be indicated. distance. Candidates excluded due to failure to achieve the minimum score will be notified of their exclusion due to lack of possession of the requirements.

Once all the interviews have been completed, the Commission formulates the merit ranking based on the overall score obtained by each candidate, given by the sum of the scores attributed to the qualifications and the interview. In the event of an equal score, preference will go to the younger candidate.

The Director of the Institute of Photonics and Nanotechnologies, Dr. Caterina Vozzi, will verify the regularity of the procedure, approve the documents transmitted by the Commission, and arrange for the publication of the ranking by posting it on the noticeboard of the examination center and on the CNR website: www.urp.cnr.it and will nominate the winner(s).

Art. 7

Nomination of the winner, acceptance, forfeiture, interruptions and renunciation of the scholarship

The Director of the Institute of Photonics and Nanotechnologies, Dr. Caterina Vozzi, sends the winner(s) the deed of awarding the research grant, together with the grant holder's work plan, containing the activities to be carried out during the grant. The grant deed will also indicate the starting date of the grant and the deadline for formal acceptance of the grant.

The candidate named winner must send, within ten days of the communication of nomination sent by the structure that issued the announcement, a declaration of acceptance of the scholarship, under penalty of forfeiture of the right. The information necessary for its tax classification must also be attached to this declaration.

Before proceeding with the awarding of the research grant, the candidate in possession of a qualification obtained abroad (regardless of citizenship) must produce the equivalence certificate issued by a competent authority. In the absence of verification of equivalence, the awarding of the scholarship will be deferred.

Holders of research grants must settle for the entire period of assignment of the grant in the place where it is used.

In case of non-acceptance of the awarding of the research scholarship by the winning candidate, the scholarship will be awarded to the candidate placed in the next position in the ranking. In the absence of suitable candidates, the Director of the Institute of Photonics and Nanotechnologies issues a decision concluding the procedure with a negative outcome.

In the event of interruption of the research grant for any reason during its execution, the Director of the Institute of Photonics and Nanotechnologies has the right to award, for the remaining period, provided that it is not less than 6 months, the grant to the candidate placed in ranking following the winner.

The provision of the research grant is suspended in the case of maternity or paternity, within the limits established by current legislation regarding the protection and support of maternity and paternity (articles 16, 16-bis, 17 and 28 of Legislative Decree 151 /2001) or in cases of unavailability due to serious health reasons for a period exceeding one month per year.

These cases do not entail the loss of the right to complete the study-research activity and, in such cases, the duration of the scholarship extends for a period equal to that of the suspension. If the new deadline expires beyond the duration of the Project for which the grant was announced, the Director of the Institute of Photonics and Nanotechnologies, Dr. Caterina Vozzi, has the right to consider the date of completion of the project as the expiry of the grant.

The scholarship holder who, after starting the planned activity, does not continue it regularly and uninterruptedly for the entire duration, without justified reason, who is responsible for serious shortcomings or who demonstrates that he does not possess sufficient aptitude, can be declared forfeited with a provision by the Director of the Institute of Photonics and Nanotechnologies, Dr. Caterina Vozzi.

If the scholarship holder decides not to complete the planned activity, he or she must promptly notify the Director of the Institute of Photonics and Nanotechnology, Dr. Caterina Vozzi, and the scientific director/research tutor.

Art. 8

Carrying out and evaluating activities and possible renewal

The activities covered by the research grant are defined in the work plan communicated to the winner of the selection together with the awarding of the grant. The fellow will carry out his activities without a predetermined timetable.

The scholarship holder must present to the scientific research manager (Tutor) a report on the activity carried out for each year of use of the scholarship, which will be evaluated by the Tutor.

The Tutor must guarantee the training of the scholarship holder and draw up a report on the activity carried out by the scholarship holder for each year of the relationship, to be sent to the Director of the Institute of Photonics and Nanotechnologies of the CNR to which the scholarship holder refers.

The positive evaluation of the Tutor and the Director of the Institute of Photonics and Nanotechnologies of the CNR of the activities carried out by the holder of the research grant are necessary for the possible renewal of the grant.

In the event of a negative evaluation of the activity carried out, the Tutor sends a detailed report to the Director of the Institute of Photonics and Nanotechnologies of the relevant CNR who will issue an adequately motivated provision for forfeiture of the scholarship.

Art. 9

Personal data treatment

The personal data transmitted by candidates with the applications to participate in the selection are processed pursuant to and for the purposes of the provisions of the General Data Protection Regulation no. 679/2016 – GDPR, exclusively for the purposes of selection and any procedures for the attribution of the training tool. The provision of such data is mandatory for the purposes of evaluating the participation requirements, under penalty of exclusion from the selection itself.

Art. 10

Access to documents and responsible for the procedure

The right of access to the documents of the selective procedure pursuant to Law 7 August 1990 n. 241 and subsequent additions and amendments, is exercised in the manner set out in art. 10 of the organizational measure n. 22 of 18 May 2007, as integrated and modified by provision no. 62 of 8 November 2007 (available on the CNR website www.urp.cnr.it) and with the limitations set out in art. 12 of the same.

The person responsible for the procedure is Dr. Marianna Salvatore, Tel. +39 06 45488703 e-mail Marianna.salvatore@cnr.it

Art. 11

Publicity and advertizing

The *notice* of this selection notice is published in the Official Gazette of the Italian Republic IV Special Series - Competitions and exams and the full text on the CNR website www.urp.cnr.it and on the website of the Institute of Photonics and Nanotechnologies of CNR.