



Consiglio Nazionale delle Ricerche

Istituto di Fotonica e Nanotecnologie

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CALL NO. 126.247.AR234

SELECTION PROCEDURE FOR N° 1 (one) FELLOWSHIP (Assegno di Ricerca) FOR COLLABORATION TO RESEARCH ACTIVITIES in the framework of the Project LEMAQUME – Levitated Magnets for Quantum Metrology, finanziato nell’ambito del programma europeo ERANET QuantERA 2 (DFM.AD002.122.004 – CUP CUP B53C22001080005)

Type of the Fellowship: Post-Doctoral

THE DIRECTOR

WITH REGARD TO the Legislative Decree no. 127, June 4, 2003, on "*Reorganization of the National Research Council (CNR)*";

WITH REGARD TO the Legislative Decree no. 213, December 31, 2009, on "*Reorganization of the research institutions to implement Art. 1 of the Law no. 165, September 27, 2007*";

WITH REGARD TO the Statute of the National Research Council, issued by decree of the President of CNR no. 24, prot. 0023646, April 07, 2015, entered into force on May 1, 2015;

WITH REGARD TO the Rules of Organization and Functioning of the decree of the President of CNR of May 4, 2005, published in the ordinary supplement no. 101 of the Official Gazette of the Italian Republic no. 124 of May 30, 2005, and in particular the Art. 47 as amended by Decree of the President of CNR no. 17, prot. no. 21306, March 8, 2011, published in the Official Gazette - General Series - no. 60 of March 14, 2011;

WITH REGARD TO the DPR no. 445, December 28, 2000, on "*Consolidated laws and regulations on administrative documentation*" and successive amendments;

WITH REGARD TO the Legislative Decree no. 196, June 30, 2003, concerning "*Code regarding the protection of personal data*";

WITH REGARD TO the Art. 22 of the Law no. 240, December 30, 2010, entered into force on January 29, 2011;

WITH REGARD TO the guidelines for the assignment of grants for conducting research activities at CNR, approved by the Board of Directors with order no. 28 on February 9, 2011, subsequently amended by resolutions no. 62, March 23, 2011, and no. 186, September 22, 2011, and no. 189 November 27, 2013;

WITH REGARD TO the Ministerial Decree no. 102, March 9, 2011, concerning the definition of the minimum amount of research grants;

WITH REGARD TO the Law no. 183, November 11, 2011, and in particular the Art. 15 (*Stability Act 2012*);

WITH REGARD TO the directive of the Ministry of Public Administration and Simplification no. 14/2011 about the implementation of the new provisions relating to certificates and affidavits of the Art. no. 15 of the Law no. 183, November 12, 2011;

WITH REGARD TO the Law no. 35, April 4th, 2012 and in particular the Art. 8, clause 1;

WITH REGARD TO Legislative Decree no. 33, March 14th, 2013 about "*Reorganization of the regulations about obligations to advertisement, transparency and diffusion of information by public administrations*";

VERIFIED that the costs arising from the assignment of the fellowship are covered by the financing



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of the Project “LEMAQUME – Levitated Magnets for Quantum Metrology”, in the frame of the European Project ERANET QuantERA 2 (DFM.AD002.122.004);

ANNOUNCES

Art. 1 - Research Project

There will be a public selection, based on qualifications and an interview, for the assignment of no. **1 (one) "Post-Doctoral Fellowship" (Assegno di Ricerca Post-Dottorale)** to carry out research activities relevant to the Scientific Area "Experimental Physics " at the Institute for Photonics and Nanotechnologies (IFN) of the National Research Council (CNR) in the framework of the Project “LEMAQUME – Levitated Magnets for Quantum Metrology”, in the frame of the European Project ERANET QuantERA 2 (DFM.AD002.122.004 - CUP B53C22001080005), under the supervision of Dr. Andrea Vinante.

Object of the research activity: “Development and characterization of sensors based on levitated micromagnets”.

Art. 2 - Duration and amount of the Research Grant

The research grant will last for **12** months. The overall duration of the relationships established by the grantee with the CNR, plus any contract of temporary employment (as specified in the Art. 24 of Italian Law 240/2010) with different universities (public, private or online ones) as well as with other Public Entities (as described in art. 22, paragraph 1, of the Italian Law 240/2010), must not exceed 12 years, even non-continuous, with the exception of periods spent on maternity leave or sick leave according to current legislation, and periods completed before the came into force of Italian Law 240/2010. Any deferment of the beginning of the research activity or any suspension thereof, will be allowed in case of maternity leave or sick leave if exceeding thirty days. Any interruption of the research activity justified under the afore mentioned conditions will entail the suspension of the salary for the period. The end date of the research grant will be extended by a period equal to the duration of the suspension.

The amount of the research grant, remitted monthly in deferred payments, is set at **Euros 22.000,00** (twenty-two thousands/00) for 12 months. This does not include any reimbursement for travels in Italy or abroad as may be necessary to carry out the research activities related to the grant. The reimbursement for travels is determined as that of employees engaged at the CNR at III professional level. The grantee is covered by a cumulative insurance policy undersigned by CNR. The selected candidate will carry out her/his research activity in an autonomous manner, within the limits of the program prepared by the head of the research unit, without predetermined working hours.

Art. 3 - Requirements for admission to the selection

Individuals of any nationality or age may apply to the selection if they are in possession of the following requirements at the deadline date for application submission:

- a) Possession of a **Master degree in Physics**;
- b) Possession of a **PhD title in Physics**, or similar disciplines, as defined by D.M. 509/99 and D.M. May 5, 2004, or an equivalent foreign qualification;
- b) Proven experience with experimental low temperature physics, superconducting devices and SQUIDs, microfabrication techniques.
- c) Good knowledge of English.

All qualifications obtained abroad, such as master degree, shall be previously recognized in Italy in accordance with current legislation (information on the website: <http://www.cimea.it/>). The equivalence of those diplomas that have not already been recognized in Italy with the aforementioned procedure, will be evaluated, only in the purpose of the present selection, by the Examining



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Committee constituted according to art. 6 of this announcement;

The research grant cannot cumulate with scholarships provided by the CNR or other organizations and research institutions, except those granted by the CNR or national or foreign institutions which serve to supplement the research activities of grantees with visiting periods abroad. The holders of research grants may attend PhD courses that do not result in payment of scholarships.

Employees of the CNR with permanent or fixed term contract and permanent staff employed by other parties as indicated in the Art. 22, paragraph 1, of the Law no. 240/2010 cannot apply, and the contractor/employee employed by government application will result in the placement on leave without pay.

With regards to the Art. 22, paragraph 3, of the aforementioned law, the ownership of this grant is not compatible with participation in the undergraduate or master degree, PhD with scholarship or medical specialization schools, in Italy or abroad.

Art. 4 - Applications and deadlines

Applications consist of:

- Application form (attachment A)
- Curriculum vitae
- Self-certification form (attachment B) testifying the truthfulness of the contents of the Curriculum Vitae (Arts. 46 and 47, DPR 445/2000)
- Copy of a valid ID (Art. 76, DPR 445/2000)

In the curriculum the applicant must give a detailed description of personal information and achievements relevant for the position, such as education and working experiences, teaching and mentoring experiences, professional activities, publications or other titles.

The CNR administration can perform suitable checks on the truthfulness of the declarations (Italian, DPR 445/2000, Art. 71). All the supporting material (e.g., papers, technical reports, monographs, and book chapters) that cannot be freely downloaded from the web, should be sent by e-mail as annexes to the application.

Reference letters in electronic format can also be attached to the applications.

The applicant must not produce any further documentation (Art. 15, Law 183/2011).

Applicant must send applications by e-mail to ida.ruffoni@ifn.cnr.it.

Emails must have as subject: "Notice of selection 126.247.AR234". A confirmation e-mail will be sent to the candidates after receiving the application.

The deadline for the submission of the application is August 26, 2022.

Applications submitted after the deadline and incomplete applications will not be taken into account. All the communication regarding this call will be sent to the email address of the candidates, CNR does not assume any liability for possible malfunctioning of web connections.

Applicants with disabilities must explicitly request the necessary support in relation to their disability in the application.

Art. 5 - Exclusion from the Selection

The Director of the Institute can exclude an applicant from the selection process at any time for well-motivated reasons, such as lack of requirements. The exclusion will be communicated to the applicant by email.

Art. 6 - Examining Committee

The Examining Committee shall be appointed by the Director of the Institute and is composed of three people, researchers and experts in the field, who may be internal or external to CNR.

One member of the Examining Committee will be the project supervisor. Two replacement members will be also appointed. The Director may appoint a university professor in the Examining Committee, for exploiting the equivalence of qualifications obtained abroad (paragraph 1 art. 3). The functions of secretary may also be provided by a member of the Committee. In the first meeting, the Committee will appoint the Chair and the secretary. The Committee may carry out the evaluation procedure with



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the aid of videoconference tools. The Committee shall conclude the selection procedure within sixty days after the deadline for submitting applications, except cases of motivated impossibility.

Art. 7 - Selection procedure and Ranking

A Committee, nominated by the Director of the Institute, can assign a total of 100 points to the applicants, of which 50 points attributed by examining the qualifications presented and 50 points attributed by the interview, supported by the rules established by the committee, to assess the candidate's aptitude for research. Candidates who reach the threshold value of 25/50 points in the evaluation of the application are admitted to the interview. To pass the interview, a threshold value of 35/50 points must be reached.

All candidates will receive a communication informing them whether they are admitted to the interview or not.

The interview will be on **September 5th, 2022, at 14.00 p.m.**, at the Headquarters of CNR-IFN in Trento, Italy, **Via alla Cascata, 56/C - 38050 Povo (Tn)**.

The publication of the present call is meant as to be the official convocation. An official notice will be sent to candidates that will not qualify for the interview, due to missing fulfillment of the requirements. Interviews may be carried out remotely; detailed instructions will be provided to the selected applicants by e-mail. All the communications and the interviews will be held in English.

To be eligible for the interview, the applicants must present a valid identity document.

The Applicants who are not present/available at the scheduled day and time of their interview will be declared ineligible. At the end of the selection procedure the Committee will publish the final results and ranking and will appoint the selected applicant. If two applicants have the same score, the younger applicant will be preferred. Final results, approved by the Director of the Institute, will be published on the CNR website: www.urp.cnr.it. If the selected applicant renounces the position, the Director of the Institute - with the agreement of the project supervisor - can appoint another applicant, following the score order.

The National Research Council will not reimburse any expenses incurred by candidates for participation in the selection process.

Art. 8 - Contract

Within 15 days after the publication of the final results, the Director of the Institute should submit to the appointed applicant, the fellowship award order with the starting date of the research program. Within 15 days after receiving this communication, the selected applicant has to send back a signed copy of the aforementioned communication for acceptance.

Any delay in the beginning of the research program can be justified only in cases accounted for in art. 2 of this announcement or for reasons of force majeure proved in due manner.

The selected applicant shall submit to the Director, within thirty days from the date of acceptance of the grant, the following documents (Italian Law 445/2000):

- a) self-certification indicating date and place of birth, citizenship, possess of political rights, education;
- b) a declaration in lieu of affidavit, on ordinary paper, of not having been dismissed or retired from the Public Administration for persistent poor performance, and not having been revoked by another state employment for having achieved it through the production of false or invalid documents and that she/he was not disqualified from holding public office on the basis of res judicata;
- c) copy of fiscal code card (codice fiscale);
- d) In case the winner is an employee of Public Administration, before beginning the research activity she/he must submit a copy of the order of placement on leave without pay.

Documents issued by the competent authorities of the State of which the foreign candidate is a citizen must comply with the provisions in force in that State. The fellow who, after starting the planned activity, will interrupt it without justification, or will not carry it on regularly and continuously for the



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entire term, or is responsible for serious or repeated misconduct or, finally, proves not to have sufficient attitude, may be revoked, with motivated decision of the Director of the Institute, from the further reception of the payment of the grant. The measure referred to in the preceding paragraph will be taken by proposal of the Research Project Manager. If the grantee, on the grounds of personal reasons, cannot carry through the planned activities and decides to give up the grant in advance, she/he shall promptly inform the Director of the Institute and the Research Project Manager. In this case, the grantee must return any amounts received and not due.

Art. 9 - Evaluation of the research activity

The research project manager and the grantee shall forward to the Director of the Institute before the end of the contract, a complete report showing the progress of research.

Art. 10 - Privacy policy

Under Art. 13 of Legislative Decree n. 196, June 30, 2003, the personal information provided by applicants will be collected at the Institute for the purpose of organizing the selection and will be processed in a database for the aim of the selection. The acts must be retained for a period of at least five years. Providing such data to CNR is compulsory for the evaluation process and those who will not provide such data will be excluded from the selection. The same data may be disclosed only to Public Administrations directly involved in the selection process or in the grant contract.

The applicant has the rights provided by the Art. 7 of the aforementioned decree, which include the right of access her/his data and the right to correct, update or delete data that is incorrect, incomplete or not collected in accordance with the law. These rights may be exercised with the Director of the Institute who is also responsible of the data treatment procedure. The right to access the records of selections procedure, under the Law no. 241, August 7, 1990 and subsequent additions and modifications, shall be exercised in the manner provided for in the Art. 10 of the regulation no. 22 of May 18, 2007, as supplemented and amended by order no. 62, November 8, 2007 (available on the web page of the CNR www.cnr.it under "utilities") and with the limitations of the Art. 12 of the same order.

Article 11 - Advertising

The notice of selection shall be made public by the Director of the Institute, by publication on the website of the CNR www.urp.cnr.it.

Article 12 - Additional dispositions

For what not explicitly mentioned in this announcement, the Italian law about public selections and the dispositions of the CNR regulations currently in force shall apply.

The Director of CNR Institute of Photonics and Nanotechnology
Dott. Luca Poletto



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Istituto di Fotonica e Nanotecnologie

(to be sent on plain paper)

Annex A

To the Director of CNR-IFN
Dott. Luca Poletto

Subject: Selection Call n° 126.247.AR234

The undersigned
born in (province/country)
date of birth and resident in
(province/country)
Street no. zip code
.....
Country

according to the Art. 22, Law 240/2010, asks to be admitted to the public selection, based on qualifications and an interview, for the assignment of no. **1 (one) "Post-Doctoral Fellowship" (Assegno di Ricerca Post-Dottorale)** to carry out research activities on "Development and characterization of sensors based on levitated micromagnets" in the frame of the Project "LEMAQUME – Levitated Magnets for Quantum Metrology", in the frame of the European Project ERANET QuantERA 2 (DFM.AD002.122.004 – CUP B53C22001080005), under the supervision of Dr. Andrea Vinante.

To this aim, the undersigned declares under her/his responsibility:

- 1) to be citizen;
- 2) to have obtained the Master of Science degree in the ___/___/___ at the University with mark
- 3) to have obtained the PhD of Science degree in date: ___/___/___ at the University with mark.....
- 4) to have no prior criminal convictions and have no criminal proceedings (otherwise, please specify).
- 5) to have / have not used other research grants as "Assegno di Ricerca" since to and to have / have not used the employment relationships such as reported in the Art. 2 of the Selection Notice, obtained with

The undersigned attaches to the present application:

- 1) curriculum vitae
- 2) self-certification compliant to the Arts. 46 and 47 of the DPR 445/2000 to be filled in by using the form included here as Annex B stating the truth of any part of the included curriculum vitae;
- 3) list of works presented by the participant via email indicated in the Art.4 of the Selection Call.

Place and date:

SIGNATURE



**DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE
DICHIARAZIONE SOSTITUTIVA DELL'ATTO DI NOTORIETÀ (SELF-
CERTIFICATION)**

(Arts. 46 and 47, DPR 445/2000 s.m.i.)

**DICHIARAZIONE SOSTITUTIVA DELL'ATTO DI NOTORIETÀ (SELF-
CERTIFICATION)**

(Art. 47, DPR 445/2000 s.m.i.)

The undersigned _____
(name) (surname)
Born in _____ the _____
(Place) (prov.) (date)
resident in _____
(Place) (prov.)
Street _____ n° _____
(address)

WITH REGARD TO the DPR no. 445, December 28, 2000, on "Consolidated laws and regulations on administrative documentation" and successive amendments;

WITH REGARD TO the Law , no. 183, November 12, 2011, no. 183, and in particular the Art. 15 (Stability Act 2012) (*);

Aware that, according to the Art. 76 of the DPR 445/2000, false declarations, falsity in public documents and use of false documents are punished according to the Penal Code and to special laws on the subject, declares under his/her own responsibility that what declared in the following curriculum vitae et studiorum including information on the scientific production corresponds to the truth.

SIGNATURE

(*) According to art. 15, paragraph 1 of the Law 12 November 2011, no. 183, self-certifications released from the Public Administration relative to states, personal qualities and facts are valid and usable only in the private sector; in relations with the Public Administration and providers of public services, certificates are always substituted by self-certifications as in art. 46 and 47 of the DPR 445/2000



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- 1) Date and sign all the pages that make up the statement.
- 2) Under Art. 38 of Presidential Decree 445/2000 the subscriber must attach to the declaration a photocopy of a valid identification document.
- 3) All information provided with self-certification must be correctly identified with single reference elements (example: date, protocol, title of the publication, etc.).
- 4) The CNR has the right to control pursuant to art. 71 and for the purposes of articles. 75 and 76 of Presidential Decree no. 445, December 28, 2000, the veracity of the affidavits produced and signed by the parties concerned.
- 5) The rules on affidavits applies to Italian nationals and European Union.
- 6) Citizens of countries outside the EU, legally residing in Italy, can use the affidavits of Arts. 46 and 47 of Presidential Decree no. 445, December 28, 2000, limited to, the personal qualities and facts certifiable or ascertainable by Italian public entities, subject to any special provisions contained in laws and regulations governing immigration and the condition of stranger.

Outside of the cases aforesaid, the citizens of non-EU authorized who reside in the State may use affidavits in cases where production of the same stems from the application of international conventions between Italy and the country origin of the registrant.