ISTITUTO NAZIONALE DI FISICA NUCLEARE

Announcement n. 27076

POST-DOCTORAL SENIOR LEVEL 3 RESEARCH GRANT IN THEORETICAL PHYSICS

The 2025/2026 INFN Research Grant Program offers 15 **(fifteen) positions** for research activity in Theoretical Physics.

Eligible candidates may be:

- Non-Italian citizens, or
- Italian citizens who, at the submission deadline, hold a position in a foreign institution and have been continuously abroad for at least three years.

The Research Grant cannot be awarded to those who have already benefited from "Assegni di Ricerca" in Italy for a total duration of six years.

If the winners of this competition have already benefited from INFN Research Grant for a period of less than six years, the new Research Grant may be awarded up to the aforementioned limit.

Those who have already won a Research Fellowship in Italy of the same type with INFN cannot participate in the call.

Applicants must have a Ph.D. degree (or an equivalent qualification), obtained no more than eight years prior to the call deadline, *i.e.* on or after November 15th, 2016. This time limit may be extended in case of:

- Maternity (18 months for each child born before or after the Ph.D. award, up to a maximum of 4.5 years);
- Paternity (effective time of leave taken for each child born before or after the Ph.D. award, up to a maximum of 4.5 years);
- National Service (effective time of leave taken after the Ph.D. award);
- Long-term illness, *i.e.* over 90 days, (effective time of leave taken for each incident occurred after the Ph.D. award).

The total elapsed time since the award of the Ph.D. should not in any case exceed twelve years and six months. The reasons for an extension of the time limit must be duly documented only in case of a successful application. Failure in providing the appropriate documentation will result in the ineligibility for the appointment.
Candidates who are preparing their doctoral thesis are eligible to apply; however they must have obtained their Ph.D. degree **by November 1st, 2025** or in any case before taking up their appointment with INFN.

The research topics of the **15** Research Grants and the corresponding INFN sites are listed in Annex 1. Each candidate may apply up to a **maximum of two** Research Grants.

The annual gross salary is €31.308,00, (the net salary according to the regulations in force on 27-06-2023 is €27.600,00. This number might be subject to change).

In order to promote the mobility of researchers, the winners of the scientific research grants who have obtained the Ph.D. in a Province or Metropolitan City other than that where their research grant is seated, will receive an additional economic incentive of € 5.000,00 gross year for each year the contract is in force, provided that they are not resident or have not had the residence or scholarships or other research grants paid by the INFN or other scientific institutions in the three years prior to the signing of the contract in the Province or Metropolitan City of the destination.

This condition is verified at the starting of the activity.

Each Research Grant is issued for two years.

Applications, in electronic form, must be submitted to INFN not later than ***November 15th, 2024*** **(11:59 a.m. CET)** through the website https://reclutamento.dsi.infn.it/ In the application the candidates must specify the date of their Ph.D., the selected research topic(s) and the corresponding INFN site(s) (**up to a maximum of two**) among those listed in Annex 1, and must include:

- a curriculum vitae;
- a publication list;

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- the names and e-mail addresses of three referees, each of them may upload a reference letter not later than **November *20th*, 2024 (11:59 a.m. CET).**

Italian applicants must also specify the foreign institution where they hold a position and must certify that they have been continuously abroad at least since **November *15th*, 2021**.

Candidates will be excluded from participation in this call if they submit their application later than the deadline indicated.

Incomplete applications (lack of information or missing files) will not be considered.

The selection of the candidates will be based on:

1) the candidate's scientific quality, as shown by his/her CV and his/her track record of results achieved;
2) quality and relevance of the submitted scientific publications to be evaluated taking into account the specific research area and the candidate's career stage;
3) qualification of the candidate as attested in the submitted reference letters;
4) matching of the candidate's scientific experience and qualifications with the research topic of the Grant.

For each Research Grant consideration will be given to candidates working in the corresponding specific research topic; however candidates working in other subjects may be also considered.

At the end of the selection process, the results of the selection will be published at INFN website (Job Opportunities – Details of the announcement). Successful candidates will then receive an official communication from the INFN administration offices. The appointed should start their Research Grant **not later than November 1st, 2025**; however, special requests to defer the starting date can be considered.

The INFN guarantees equal work access opportunities to men and women in accordance with Law No. 125 of 10 April 1991, Legislative Decree 57/165/2001 and Articles 42 and 48 of Legislative Decree 198/2006.

This public selection procedure is funded by INFN ordinary funds.

Data Controller: National Institute of Nuclear Physics: email: presidenza@presid.infn.it.
Data Protection Officer: email: dpo@infn.it

In accordance with the provisions of Art. 13 of the EU Regulation 2016/679, the requested personal data will be collected and processed, also with the use of multiple IT tools, exclusively within the call and in compliance with the legal regulation for these activities.
The provision of data is necessary to evaluate the participation requirements and qualifications and their non-indication may preclude such an assessment. The data shall be kept just for the selection period and subsequently retained for storage purposes only.
The INFN guarantees that everybody can access to personal data concerning them, as well as the rectification, the deletion and limitation of the same and the right to object to their processing; it also guarantees the right to file a complaint with the Data Processing Authority about the processing carried out.
For all other aspects not provided in this call, please refer to INFN Regulation for research grants of June 27th, 2023, which form an integral part of the present call and is available at the website: https://jobs.dsi.infn.it

Roma, 11th September 2024

RC/ADV

ISTITUTO NAZIONALE DI FISICA NUCLEARE
Il PRESIDENTE
(Prof. Antonio Zoccoli)[1]

[1] Documento informatico firmato digitalmente ai sensi della legge 241/90 art. 15 c 2, del testo unico D.P.R. 28 dicembre 2000, n. 445, del D.Lgs. 7 marzo 2005, n. 82, e norme collegate, il quale sostituisce il testo cartaceo e la firma autografa

ANNEX 1

	INFN Section or Laboratory	Research Topic
1	Bari	Statistical physics of complex biological systems
2	Catania	Quantum theories of Gravity, implications for Black Holes and Cosmology
3	Firenze	Statistical field theories and their applications
4	Genova	String theory, Supegravity and Quantum Gravity
5	Lecce	The strongly correlated nuclear system
6	Laboratori Nazionali di Frascati	Developing a scheme for high-precision computations of cross sections at hadron colliders
7	Laboratori Nazionali del Sud	Dynamics of the hot QCD matter produced in ultra-relativistic hadronic collisions
8	Milano Bicocca	Precision physics for discoveries at present and future colliders
9	Milano Bicocca – Gruppo Collegato Parma	Dynamics and non-equilibrium states of complex systems
10	Napoli	Dark Matter distribution in galaxies, and its impact on cosmology
11	Roma	Dark Matter and the Early Universe
12	Torino	String theory and non-perturbative physics
13	Torino	Theory and phenomenology of fundamental interactions at present and future particle-physics experiments
14	Trieste	Theory and phenomenology of quantum gravity motivated black hole mimickers
15	Trieste	New physics at small/medium scales beyond the standard model of cosmology