



Call n. 19(21)

## MUSEO STORICO DELLA FISICA E CENTRO STUDI E RICERCHE

### "ENRICO FERMI"

#### CALL N. 19(21)

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 SENIOR GRANT LASTING 12 MONTHS, THAT CAN BE EXTENDED ACCORDING TO THE LAW N. 240/2010, ENTITLED "EXPLORATION AND CHARACTERIZATION OF THE RELATIONSHIPS BETWEEN ECONOMIC COMPLEXITY AND URBAN MOBILITY" FOR CONDUCTING RESEARCH ACCORDING TO ART. 22 OF LAW NO. 240/2010 AT THE CREF.

#### THE ADMINISTRATION DIRECTOR

**GIVEN** Law n. 62 of 15 march 1999;

**GIVEN** Ministerial Decree n. 59 of 5 January 2000;

**GIVEN** the Statute of the Historical Museum of Physics and Enrico Fermi Study and Research Center (CREF), enacted by Board of Director with resolution n. 45 of 29 July 2020, resolution n. 77 of 29 October 2020 and with resolution n. 106 of 18 December 2020 and in force since 23 February 2021;

**GIVEN** the Three-year plan CREF's activities 2021-2023, enacted by Board of Director with resolution n. 72 of 12 July 2021;

**GIVEN** Law o. 240 of 30 December 2010, and following amendments and integrations and, in particular, Art. 22 on research grants;

**GIVEN** Ministerial Decree N. 102 of 09 March 2011, which revalued the minimum gross annual amount of grants for conducting research;

**GIVEN** the Regulations for the awarding of research grants to the CREF, issued by the Board of Directors with resolution n. 85 of September 17, 2021;

**GIVEN** GDPR 2016/679 concerning the protection of individuals with regard to the processing of personal data, as well as the free circulation of such data;

**GIVEN** the Legislative Decree n. 198 of 11 April 2006, "Code of equal opportunities between men and women";

**GIVEN** the resolution of the Board of Director n. 121 of 30 november 2021 approving the funding of no. 1 Senior Research Fellowship under the Project "ECONMOBILITY";



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**ACCERTAINED** the financial backing;

## DECREES

### Art. 1

#### CALL FOR PUBLIC SELECTION

1. A public selection is launched based on qualifications and interview for the awarding of No. 1 grant lasting 12 months, that can be extended according to the Law, for conducting scientific research (according to Art. 22 of L. No. 240/2010) at the Enrico Fermi Research Center in Rome. The contract is framed under private-law agreement as indicated hereafter:

*Type:* Senior

*Annual Gross:* € 30.000,00

*Title:* EXPLORATION AND CHARACTERIZATION OF THE RELATIONSHIPS BETWEEN ECONOMIC COMPLEXITY AND URBAN MOBILITY.

*Tutor/ Coordinator of the research activity:* Prof. Andrea Gabrielli

2. *Planned activity:* Characterization of Urban Areas using Economic Complexity methods. Analysis of the relationship between urban transport system, mobility habits of citizens, and fitness of urban areas.
3. The grant is paid to the contract holder in monthly rates of equal amount.

### Art. 2

#### REQUIREMENTS FOR ADMISSION TO THE SELECTION

1. The selection procedure is open to scholars having a professional scientific curriculum suitable for conducting the scientific research expected by this call, as well as the following requirements:
  - a) to be at least 18 years old;
  - b) to have civil and political rights in the country of origin.
  - c) to have no criminal convictions or ongoing criminal proceedings that would prevent, in accordance with the national regulations, the establishment of an employment relationship;
  - a) Knowledge English Language;
  - d) Knowledge Italian Languages (for foreign candidates only);
  - e) **Degree in Physics**: for Italian candidates Diploma di Laurea Specialistica (LS) or Laurea Magistrale (LM) and equivalent qualifications, or Diploma di Laurea (DL) obtained according to the procedures preceding the entry into force of Ministerial Decree 509/1999



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and following amendments and integrations and equivalent qualifications for admission to public competitions; for foreign candidates an equivalent qualification according to the national law.

- f) **PhD in Physics;**
  - g) minimum two years of professional scientific experience.
2. The qualifications obtained abroad must be recognized as valid in the Italian territory. Concerning qualifications obtained abroad that have not already been recognized in Italy through a formal procedure according to the applicable laws: the Commission is competent to assess the equivalence – as to the nature, level and subject correspondence (degree cycle or CUN Area for PhD qualifications) - to the qualifications required by this call according to the procedures foreseen by the CREF Regulations for awarding grants.
  3. The selective procedure does not allow admittance to:
    - a. those who have a degree of affinity, up to including the fourth degree, with a CREF researcher, Administrative Director, or member of the Board of Directors.
    - b. those who have already had research grants awarded according to the Art. 22 of Law No. 240/2010 for a period which, added to the duration of the contract provided by this call, exceeds a total of six year (except for the period in which the grant was used in coincidence with the PhD within the maximum legal duration of the relevant course);
    - c. those who were contracted as research fellow or fixed-term researcher according to the Art. 24 of Law 240/2010 in a Italian public or private university, as well as any other organization indicated in the 1<sup>st</sup> paragraph of the Art. 22 of Law 240/2010 for a time period which, if summed to the duration of the contract in this announcement, exceeds 12 years in total, albeit not consecutive. Periods of time spent on maternity or sick leaves do not count to the purpose of the duration of the aforementioned relationships, in accordance with current Laws;
    - d. people regularly employed in universities, public research institutions, including the Italian National Agency for new technologies, energy and sustainable economic development (ENEA) and the Italian Space Agency (ASI) and institutions whose scientific specialization diploma was recognized equivalent to a PhD pursuant to the fourth paragraph under article 74 of Presidential Decree of 11 July 1980, No. 382.
  4. Applicants enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Master's degree (LM), PhDs with scholarship or medical specialization in Italy or abroad can participate to the present call. If such an applicant is the winner, the fellowship will be assigned



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if the applicant renounces to such studies or to the PhD scholarship.

5. These requirements must be met on the date of the deadline for submitting the application for the admission to this selection.
6. This Administration guarantees equality and equal opportunities between men and women as to access to employment and treatment at work.

#### Art. 3

##### EXCLUSION FROM THE PROCEDURE

1. The following reasons are causes of exclusion:
  - a. lack of signature on the application form;
  - b. lack of admission requirements as provided for by Art. 2;
  - c. failure to meet the procedures for submitting the application as mentioned in the following Art. 4.
2. If additional documents are necessary to the Administration, applicant must regularize his/her application within the time established.
3. The Examining Commission may order the exclusion of the candidate from this call, at any time, with a motivated provision.

#### Art. 4

##### TERMS AND CONDITIONS FOR SUBMITTING APPLICATION

1. Applications must be written by using the form attached to this announcement (Annex A) and must be submitted **no later than 23.59 (UT) on the day 25 December 2021**. Late submissions will not be taken into consideration.
2. Application must be sent from certified e-mail address, belonging to the applicant, to the certified e-mail address of CREF [reclutamento@pec.centrofermi.it](mailto:reclutamento@pec.centrofermi.it) within the aforementioned deadline. The application must be delivered reporting in the e-mail subject “**Bando n. 19(21) – Assegno di ricerca**”. **The PEC must contain in attachment a single folder in ZIP format containing all the documents required by this call, including attachments, in pdf format. Applications received by other means will be declared inadmissible.**
3. Foreign candidates can send the application by regular e-mail to the following address: [segreteria@cref.it](mailto:segreteria@cref.it) and will receive a confirmation email. The applicant must check that the confirmation is arrived, otherwise he/she should contact the administrative office of the CREF. The application must be delivered reporting in the e-mail subject “**Call n.19(21)**”.



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4. Applications that are not consistent with the attached forms (Annex A) or without the candidate's signature will be excluded from the selection procedure.

Art. 5

ADMISSION APPLICATION

1. Aware that false declarations are punishable by law and that the Administration will carry out random checks on their accuracy, **the applicant must state** clearly and precisely in the application (Annex A), under his/her own responsibility pursuant to what provided for by Presidential Decree 445/2000 and following amendments and integrations:
- a) name(s) and surname, date and place of birth,
  - b) fiscal code (only for Italian citizens)
  - c) place of residence and address e-mail;
  - d) citizenship;
  - e) a declaration assessing to know the foreign language required by this call; the applicant with citizenship other than Italian must also declare to have an adequate knowledge of Italian;
  - f) to have civil and political rights in the Country of belonging or provenance.
  - g) to be in compliance with military service obligation (only for Italian citizens born before 1° January 1986);
  - h) adequate physical fitness (The Administration can certify according to the Art, 41 of d.lgs. 9 april 2008, n. 81);
  - i) to have no criminal convictions, or declare possible convictions undergone, indicating the details of related sentences, and any pending criminal proceedings;
  - j) to be/not to be a state employee, specifying to be/not to be a regular employee at Universities and other bodies as mentioned in Art. 22 of L. No. 240/2010;
  - k) if enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Magistrale (LM), PhD with study grant or medical specialization, in Italy or abroad, to be aware that, in the event of awarding of the grant, attendance at such courses and the use of the PhD study grant are incompatible with the holding of the contract;
  - l) to have the qualifications mentioned in the previous Art. 2, indicating the degree cycle/CUN Area of PhD, the date on which it was obtained, the Institute that issued it and the final vote/assessment achieved; the applicant with qualification(s) obtained abroad must declare to have obtained the relevant recognition indicating in the application the details of the provision or must annex the required documentation according to what specified hereby;
  - m) to possess any other requirements as mentioned in Art. 2;



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- n) (if any) to have been the holder of research grants awarded according to art. 22 of Law no. 240/2010 and their duration;
  - o) (if any) to have been the holder of fixed-term researcher contracts according to art. 24 of Law no. 240/2010 and their duration;
  - p) not to be in any position of incompatibility referred to in art. 2 paragraph 3 of this announcement.
2. The application form (Annex A) must be signed by the candidate **under penalty of exclusion**. When submitting the application for participating in the selection, the applicant must include the following documents:
- a. a photocopy of the applicant's valid identity card or passport;
  - b. curriculum vitae in European format, dated and signed; it must contain the following authorization "*I agree to let to process the data I have given in accordance to the laws currently in force on the subject – European Regulation GDPR 2016/679*";
  - c. titles considered appropriate for the purposes of the selection such as specialization degrees, certificates of attendance to postgraduate courses, obtained in Italy or abroad, contracts, study grant or research assignments both in Italy and abroad (cf. Annex B);
  - d. A maximum of n. 10 scientific publications including original journal articles and conference proceedings (including any journal articles in press) on the research topic covered by the call;
  - e. a signed summary list of all documents submitted for the purposes of this call;
  - f. in the event of foreign applicant, it is necessary to annex: a copy of the residence permission (if the applicant is already in its possession).
3. **Concerning qualifications obtained abroad the applicant is required to:**
- if recognized as valid in the Italian territory, the applicant must indicate in the application the details of comparability/equivalence of the qualifications obtained abroad;
  - if not recognized as valid in the Italian territory, the applicant must include a copy of the qualification obtained abroad (**obligatory annex**), with the certificate of the exams taken or the diploma supplement. The CREF Administration may request a translation in Italian or in English language.
4. As regards all other qualifications obtained abroad which the applicant intends to provide for the selection as required by the call, it is necessary to include to the application a copy of the qualifications.
5. The requirements and the qualifications must be owned on the date of the expiry of the call.



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6. The Administration has the right to carry out suitable controls on the truthfulness of the contents of the declarations in lieu pursuant to what provided for by Presidential Decree No. 445/2000.
7. It is mandatory to indicate a personal e-mail address to which the communications concerning this selection will be sent. Any variation of said address must be promptly communicated to the email address [reclutamento@pec.centrofermi.it](mailto:reclutamento@pec.centrofermi.it) (or, only for non-Italian citizens, to [segreteria@cref.it](mailto:segreteria@cref.it)).

Art. 6

EXAMINING COMMISSION

1. The Examining Commission is appointed by Administrative Director, upon proposal of the Coordinator of the research activity covered by this Announcement, after consulting the Scientific Director of the CREF, at the expiry of the deadline for submitting the application.
2. The Commission is made up of three effective members and an alternate member, internal or external to CREF, with the profile of researchers or university professors (possibly also retired), or experts in the field.
3. The Commission can also carry out the selection procedure by videoconference.
4. The Commission may appoint a Secretary to take minutes of meetings.

Art. 7

SELECTION

1. During its first meeting, the Examining Commission will establish the assessment criteria and procedures explicitly, according to what provided for by the call.
2. The overall assessment is expressed in hundredths, as indicated hereafter:
  - a. up to a maximum of 40 points for qualifications and scientific-professional curriculum; to that end, the assessment is based on:
    - up to 5 points for graduation mark.
    - up to 10 points for publications and other research products concerning the theme of the call;
    - up to 25 points for documented research activities – as long as the beginning date and duration of the activities are duly certified – carried out at the premises of public and private subjects with contracts, study grants or assignments, both in Italy and abroad;
  - b. up to a maximum of 60 points for the interview.
3. The applicants will be informed before the interview on the results of the assessment of the qualifications.
4. Candidates who have obtained at least 28/40 points are admitted to the interview.



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5. The date and place of the interview will be communicated with at least 20 days' notice by e-mail to the address indicated in the application for selection. This notice constitutes to all intents and purposes an official communication.
6. The interview can be carried out via videoconference, subject to the authorization of the Commission, if the identity of the applicant can be recognized with certainty. To this end, the applicant, during the interview, must show a valid identity document.
7. Failed connection at the time established or late connection, unless due to force majeure, will be considered as a renunciation to participate in the selection.
8. During the interview, the Commission will verify the candidate's ability to deal with the topics and issues relating to the research project and his knowledge of at least one foreign language, according to the provisions of the announcement. The interview will also focus on the course of study carried out and on any work experiences.
9. At the end of the works, the Commission draws up the list of the applicants examined, indicating the votes obtained during the interview.
10. Applicants will be inserted in the selection list if they obtain at least 40 out of the 60 points available for the interview.
11. The Commission will draft the selection list in descending order according to the overall final score, which is obtained by adding the score of the qualifications and the score of the interview. The overall final score identifies the winner or winners, depending on the number of grants established for the Competition.
12. The selection list is approved, under the condition precedent of verifying the requirements provided for by the call, with Provision of the Administrative Director, and published on the CREF website in the section "Bandi e Gare". The term for submitting any appeal will run from the date of publication.
13. Should the winning applicant renounce to or withdrawal from the contract, the grant can be awarded to successful applicants according to the order of the selection list.
14. CREF does not reimburse the expenses incurred by candidates for participation in the interview.

**Art. 8**

**SIGNING OF THE CONTRACT AND WITHDRAWAL**

1. The winning applicant, having the mentioned requirements, will sign a contract under private law. The contract will be valid, normally, on the first day of the month following the month in which the acts are approved.





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2. As regards foreign applicants needing a residence permit, the date of beginning of the contract will be postponed and subjected to the completion of the issuing procedure of mentioned permission.
3. The winner of the selection, will be informed by the Administrative Office to sign the contract by email, will lose the right to a grant for collaboration in research activities if he/she does not declare to accept the contract or does not start the activity within the established deadline, without prejudice to health reasons or causes of force majeure duly and promptly documented.

**Art. 9**

**RIGHTS AND OBLIGATIONS OF THE GRANT HOLDER**

1. The relationship is governed by an individual contract, according to what provided for by the applicable laws and by the CREF's Regulations.
2. The research activity is flexible, it has a continuous nature, not merely occasional, and is carried out under the leadership of the Coordinator of the research activity, with autonomous conditions as to the research programme and its realization, without any predetermined working hours.
3. The grant holder must refer to the Research structure that requested the activation of the contract.
4. The research activity of the grant holder is carried out at the CREF. Any research activities carried out at other facilities must be approved pursuant to art. 13 of the CREF Regulations for the awarding of research grants.
5. The research fellow must submit annually to the CREF a detailed written report on the research activity carried out, accompanied by the opinion of the Coordinator of the research activity.
6. Due to serious breaches the contract can be terminated with a motivated provision of the Administrative Director.

**Art. 10**

**PUBLICATION**

1. This call and related annexed forms are published on the CREF website in the section "Bandi e Gare".

**Art. 11**

**PERSON IN CHARGE OF THE PROCEDURE**

1. The Person in charge of the present selection procedure is Dr.ssa ALESSANDRA DELL'AQUILA, e-mail address: [segreteria@cref.it](mailto:segreteria@cref.it).



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Art. 12

#### PERSONAL DATA TREATMENT

1. In accordance with articles 13 and 14 of Regulation (EU) 2016/679 (GDPR), on the protection of personal data, and with D. Lgs. n. 196 /2003 and subsequent amendments, it is made known that data is controlled and managed by the legal representative of the Museo Storico della Fisica e Centro Studi e Ricerche “Enrico Fermi”. E-mail: [presidenza@cref.it](mailto:presidenza@cref.it)
2. Data will be collected exclusively for the present bid purposes and will be kept only for the necessary time to complete the relevant procedures.
3. Data will be kept for the necessary time to accomplish the selection purposes, subject to the application of norms on document retention, and will be transferred uniquely to public administration bodies directly concerned with the juridical and economic position of the selected applicant, treated in compliance with current regulations and used for personal, welfare, insurance and fiscal position management.
4. Applicants who have provided their personal data will be able to access it and exercise their rights as by art. 16 to 22 of GDPR UE 2016/679.
5. Candidates, by submitting their application, authorize and fully consent to the publication of their data on the CREF institutional website, limited to what is necessary for the purposes of this selection.

Art. 13

#### FINAL REMARKS

1. For all matters not provided for by this call, the following will be applied: Law No. 240/2010 and following amendments and integrations and the CREF Regulation on the awarding of research grant.

**The Administrative Director**

Law. Federica Cavalieri