

Public Call CBPF/MCTIC nº 01/2016

PUBLIC CALL FOR CBPF RESEARCH FELLOWS UNDER THE PROGRAM OF INSTITUTIONAL TRAINING ('PROGRAMA DE CAPACITAÇÃO INSTITUCIONAL', PCI).

The Brazilian Center for Research in Physics (CBPF), research unit of the Ministry of Science, Technology, Innovations and Communications (MCTIC), publicly announces the establishment of the selection process for new fellows under the Program of Institutional Training ('Programa de Capacitação Institucional', PCI).

1. Preliminary provisions

- 1.1 The Program of Institutional Training ('Programa de Capacitação Institucional', PCI) is conducted by the 'Conselho Nacional de Desenvolvimento Científico e Tecnológico' (CNPq) and its objective is to implement Subprograms of Institutional Training at the Research Institutes of the Brazilian Ministry of Science, Technology, Innovations and Communications (MCTIC), via the award of fellowships in order to implement scientific and technological projects which are of interest to MCTIC and in agreement with the guidelines of the Science, Technology and Innovation Policies (CT&I) of the Federal Government. The mentioned Program fellowships which are offered under the current Call are intended for the training of human resources and for the attraction of specialists that contribute to the implementation of research projects at the Brazilian Center for Research in Physics (CBPF).
- 1.2 The aim of this Public Call is to select 13 (thirteen) candidates for 4 (four) research fellowships PCI-DA and 09 (nine) research fellowships PCI-DB, with one fellowship per candidate, to work on research areas of CBPF.
- 1.3 The selection process will be ruled by this Call, its annexes, notices, supplementary acts and any potential adjustments.
- 1.4 The authority responsible for this Public Call is the PCI/CBPF Committee appointed by the annexed Executive Order.

2. Fellowships

- 2.1 04 (four) Research fellowships PCI-DA
 - 2.1.1 Duties: carrying out a research project in a research area of CBPF stated in this Call.
 - 2.1.2 Basic requirement: doctoral degree in Physics or associated discipline, obtained at least, 2 (two) years ago.

- 2.1.3 Benefits: monthly stipend amounting to R\$ 5,200.00 (five thousand and two hundred Brazilian reais).
- 2.2 09 (nine) Research fellowships PCI-DB
- 2.2.1 Duties: carrying out of a research project in a research area of CBPF stated in this Call.
- 2.2.2 Basic requirement: doctoral degree in Physics or associated discipline.
- 2.2.3 Benefits: monthly stipend amounting to R\$ 4,160.00 (four thousand one hundred and sixty Brazilian reais).
- 2.3 The term of validity of the fellowships is 06 (six) months, counted from the date of publication of the validation of the final result, with the possibility, at the discretion of the PCI/CBPF committee, of extension up to 03 (three) times by the same period of time, through the provision of budgetary resources.
- 2.4 Professionals, whether in the private or public sector, or master and doctorate students are **not** allowed to avail of these fellowships.
- 2.5 The fellowships must necessarily be linked to research projects related to research areas of CBPF stated in this Call.
- 2.6 The accumulation of PCI-D fellowships (Program of Institutional Training – Development) together with other long-duration grants from CNPq or from any other Brazilian institution is forbidden.
- 2.7 The fellow must dedicate an appropriate amount of time to the needs of the project, as specified in the proposal.

3. Applications

- 3.1 Only the registered applicants will be able to participate in the selection process.
- 3.2 The applicant is the sole responsible for sending the information required in the application, with CBPF being exempted from any acts or facts resulting from incorrect information, inaccurate or incomplete address or incorrect option.
- 3.3 The applicant's registration will imply knowledge and tacit acceptance of the rules and conditions stated in this Call, about which he/she will not be able to claim unawareness.
- 3.4 False or inaccurate statements contained in the application form will lead to its cancellation and to the invalidation of all acts arising from it, at any time, without prejudice of any applicable civil and criminal sanctions, being guaranteed the right of the applicant to appeal to the PCI/CBPF Committee. The applicant is solely responsible for the veracity and accuracy of the information provided, under penalty of law.
- 3.5 In order to apply, the applicant must send an electronic copy of:

- 3.5.1 official identity document and CPF (only the passport is required in the case of non-Brazilians);
 - 3.5.2 *Curriculum Vitae* (in Portuguese or English, in any format);
 - 3.5.3 Letter of support from the researcher at CBPF who is the intended supervisor (a suggested model is provided in the annex);
 - 3.5.4 Declaration of residence outside the Metropolitan Area of Rio de Janeiro (if applicable);
 - 3.5.5 Research project of at most 05 (five) pages, containing an introduction, description of the problem, method, expected results and bibliographical references.
- 3.6 Applications that do not comply with what is stated in this Call will not be accepted.
- 3.7 The candidate must apply for the fellowship that he/she is applying for in accordance with all the requirements established in this Call.
- 3.8 If a candidate applies for more than one fellowship, only the last application will be valid, and the previous applications will be cancelled.
- 3.9 The registration of the applications is free of charge.
- 3.10 There are no nationality restrictions for the candidates.
- 3.10.1 If successful in the selection process, the non-Brazilian candidates who reside in Brazil will have to prove their legal residence in the country; the non-Brazilian candidates who do not reside in Brazil will have to obtain a Temporary Visa Item I (VITEM-I).
- 3.11 In addition to their doctoral degree, the candidates must have their curriculum vitae registered and up-to-date on the Lattes Platform (<http://lattes.cnpq.br>), which will vouch for their professional experience.
- 3.11.1 The diploma and the curriculum in the Lattes Platform will be analysed only if the candidate is successful in the selection process, as these are necessary documents for the implementation of the fellowship.
- 3.12 Applications will only be accepted in Portuguese or in English.
- 3.13 The sending of the documents**
- 3.13.1 Application for the selection process will be sent to the PCI/CBPF Committee via *e-mail*, to the address pci2016@cbpf.br, and applications will be accepted from **00:00h on 07/12/2016 until 23h59min on 07/02/2017 (Brasília time)**.
- 3.13.2 Applicants must submit their applications as provided in sub-item 3.5, to one of the following research areas:

Experimental Condensed Matter, Materials, Biophysics, Nanoscience and Applied Physics

Magnetism and Magnetic Materials
NMR applied to Quantum Information Processing, or to Petrophysics
Superconductivity and Heavy Fermions
Nanoscience and Nanotechnology
Biophysics
Biocompatible Materials
Nanotoxicity
Biomineralization
Applied Magnetism
Scientific Instrumentation
Surface Physics
Magnetization Dynamics and Magnetic Noise
Electronic Microscopy
Nano and Microfabrication
Physics and Materials Science
High Energy Physics: collaboration in Experiments
Pierre Auger Observatory (Astroparticles)
CTA Observatory (Astroparticles)
Minerva/Fermilab (Acelerator)
LHCb/CERN (Acelerator)
CMS/CERN (Acelerator)
Theoretical Physics
Statistical Physics and Complex Systems
Field Quantum Information
Condensed Matter Physics
Mathematical Physics
Gravitation and Cosmology
Astrophysics, Cosmology and Fundamental Interactions
Astrophysics
Cosmology
Gravitation
Quantum Field Theory
Nuclear Physics

4. Evaluation

- 4.1 The candidates whose application was approved must give a public presentation of their research projects, in the form of a 30-minute colloquium, in a room to be reserved for this purpose within CBPF's premises, for which there will be an appropriate prior announcement.
- 4.2 In the case of candidates who are not resident in the Metropolitan Region of Rio de Janeiro, the presentation of the project may be given by videoconference.
- 4.3 The presentations will be given before an examining board composed of Full Professors of recognized competence appointed by the PCI/CBPF

Committee. The boards must contain at least 01 (one) member external to CBPF.

- 4.4 Based on the evaluation by the board, the representatives of each research area in CBPF will present to the PCI/CBPF Committee the minutes with the provisional result.
- 4.5 The result will be provisionally approved and published by PCI/CBPF Committee. After the verdict on any possible appeals, or the expiration of the deadline in the event that there exist no appeals, the PCI/CBPF Committee will approve and publish the final result.

5. Criteria and methods of evaluation

- 5.1 The examining board will verify the titles and evaluate the *Curriculum Vitae*. The following factors will be taken into consideration in the evaluation: the relevance and range of the candidate's scientific contributions, their autonomy, creativity and scientific maturity, as well as their competence for developing research projects, based on publications in indexed journals, teaching experience, international academic experience and knowledge of the research area.
- 5.2 Immediately after the public presentation of the project, the candidate will be interviewed by the Examining Board about the oral presentation. In this assessment, the Board may ask about the relevance and depth of the scientific contributions of the candidate as evidenced by their scientific publications and projects, of the feasibility of implementing the research plan at CBPF, as well as by their scientific experience demonstrated by the other activities related to the specific area of research defined in this Call.

6. Calendar

Opening period for applications	Dec., 7 th 2016
Closing period for applications	Feb., 7 th 2017
Provisional results of the accepted applications	Feb., 20 th 2017
Definitive results of the accepted applications	March, 1 st 2017
Decision on the precise dates and locations of the public presentations of the research projects to be evaluated	March, 10 th 2017
Public presentations	Between March 13 th and 17 th 2017
Provisional final results	March 22 nd 2017

Definitive final results	March, 27 th 2017
Implementation of fellowships	Between April and May 2017

7. Final result

- 7.1 For each one of the 13 (thirteen) fellowships on offer, the candidate who obtains the highest score in that category will be awarded the corresponding fellowship.
- 7.2 The final result will be announced by the PCI/CBPF Committee on the website <http://www.cbpf.br/~pci2016/>.
- 7.3 The final result will be communicated by the PCI/CBPF Committee to CNPq and to MCTIC for these bodies to make the final decision. Even if approved by the rules of the present Call, the candidate may not be approved by CNPq.

8. Appeals

- 8.1 The deadline for filing an appeal shall be 2 (two) days from 9h on the first day until 16h on the last day, counted from the first day following the date of the official publication of the act appealed against, in view of the following situations:
- a) Non-acceptance of an application;
 - b) provisional final result of the selection process.
- 8.2 Any appeals should be sent to the PCI/CBPF Committee, at the e-mail address pci2016@cbpf.br.

9. Final provisions

- 9.1 The candidate shall be solely responsible for any expenses due to documentation, appeal, material, travel, food, accommodation and others arising from participation in the selection process
- 9.2 It is the entire responsibility of the candidate to follow the publication of all the acts, announcements and notices related to this selection, published on the Internet, at the website <http://www.cbpf.br/~pci2016/>.
- 9.3 At any time, the application and the assessment of the candidate may be cancelled and/or the appointment of the candidate may be annulled, in all acts related to this selection process, if any of the following is demonstrated: the omission or false declaration of data or status, irregularity of documents, or irregularity during the evaluation.
- 9.4 The items in this Call may be subject to amendments, updates or additions for as long as their effects or events are not consummated, a circumstance

that will be communicated in a supplementary act to this Public Call or notice to be published on the CBPF website <http://www.cbpf.br/~pci2016/>.

- 9.5 The candidate who is summoned to any phase of the selection process but who does not attend it within the stipulated deadline, will be deemed withdrawn, being automatically excluded from this selection process.
- 9.6 This Public Call is valid for 06 (six) months, extendable for the same period up to a maximum of 24 (twenty-four) months.
- 9.7 There is no obligation to fill in all vacancies being offered.