



**UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO**  
**Centro de Ciências Exatas**  
**Programa de Pós-Graduação em Astrofísica, Cosmologia e Gravitação**  
**PPGCosmo**

**Call for Applications for a Ph.D. in Astrophysics, Cosmology and Gravitation - PPGCosmo**  
**CALL NUM. 03/2021**

The Organizing Committee of the Postgraduate Program in Astrophysics, Cosmology and Gravitation (PPGCosmo), within the Centro de Ciências Exatas (CCE) at the Federal University of Espírito Santo (UFES), announces that the period of applications for the Doctorate Degree in “Astrophysics, Cosmology and Gravitation” to start during the first semester of 2022 is now open.

### **I – Applications**

I.1. Period: from 1/12/2021 (00:00 h) until 31/1/2022 (23:59 h), timezone of Brasilia, Brazil.

I.2. Procedure: by filling in and sending the application form available online at the websites <http://ppgcosmo.cosmo-ufes.org/> and <http://www.cosmologia.ufes.br/en>.

I.3. Documents required in the application:

- (a) The Curriculum Vitae of the candidate.
- (b) A copy of the undergraduate degree and academic record.
- (c) Grade obtained at the “Exame Unificado de Pós-Graduações em Física” (EUF), only if applicable.
- (d) A copy of the master’s degree and academic record (in the case that the candidate has already either started or finished a master’s degree).
- (e) Two letters of recommendation (free style).
- (f) A brief description of research interests. The length of this document must be a maximum of one page written in free style, preferably in English, although it will also be accepted in Portuguese or Spanish. This document should consist of a list of research interests, with an explanation of why they are relevant and how they relate to the candidate’s previous studies.

### **II - Selection process**

II-1 The selection process will consist of 02 (two) stages:

- a) Analysis of the Curriculum Vitae, the description of research interests and the academic record;
- b) Interview.





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II-2. At each one of the stages the following items will be assessed:

(a) Curriculum Vitae and Academic Record: performance in the undergraduate and, if applicable, postgraduate courses; participation at scientific events in the areas of this Ph.D. program; publications in peer-reviewed scientific journals in the areas of this Ph.D. program; completion of a master's degree. Description of Research Interests: knowledge of the scientific activities carried out in the areas of this Ph.D. program; knowledge of the literature on the research topics; coherence of the presentation; writing skills; alignment with the research areas of PPG-Cosmo.

(b) Interview: mastering of the topics presented; oral skills; coherence of the presentation; knowledge of the following topics: classical mechanics, electromagnetism, quantum mechanics and statistical physics, at the level of an undergraduate degree in physics.

II-3. The interviews will be public but the other candidates will not be allowed to be present. The interviews will be recorded and the other candidates will be able to request access to the recordings during the phase of appeals.

II-4. Each one of the stages in item II-1 will be evaluated with a grade between 0 (zero) and 100 (one hundred). Item (b) will carry a weight of 1 (one) and item (a) a weight of 2 (two). The final grade will be a weighted average of these two grades with their corresponding weights.

II-5. Only the candidates that reach a grade of at least 70 (seventy) in the first stage will go through to the interview stage.

II-6. Only the candidates with a final grade of 60 (sixty) will be considered to have passed the selection process.

II-7. The selection process will undergo the following schedule.

(a) The first stage will take place between 7/2/2022 and 11/2/2022 and the results of this first stage shall be published on 12/2/2022. Appeals may be filed in from 14/2/2022 and 15/2/2022. Any appeals will be analyzed by the selection committee. The final result of the first stage shall be announced on 16/2/2022.

(b) The second stage will consist of interviews that will be carried out during the period between 21/2/2022 and 25/2/2022, either in person or via videoconference, and will last for at most 1 (one) hour. The day and time of each interview will be decided by the selection committee for this Call at least 24 hours before the interview. The result of the second stage shall be announced on 3/3/2022. Appeals may be filed in between 4/3/2022 and 5/3/2022 and they will be analyzed by the selection committee.

(c) The final result of the selection process shall be announced on 9/3/2022 after the PPGCosmo Council ratifies it.





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Sole paragraph: all communication by the candidates with the selection committee, including the filing in of appeals, should be done via the email address [ppgcosmo@cosmo-ufes.org](mailto:ppgcosmo@cosmo.ufes.org).

II-8. The candidate may indicate in the application form his/her preferences for potential supervisors from within the team of permanent members of PPGCosmo, as well as the potential co-supervisors from within the team of collaborators of PPGCosmo outside Brazil. The selection committee will try to meet the preferences of the qualified candidates based on: the candidate's final ranking in this selection process, the availability of student vacancies by both the supervisor and co-supervisor, and the acceptance by all parties - supervisor, co-supervisor and student. In the event of no agreement between all three parties involved, the student will be eliminated from the selection process.

### **III - Student vacancies**

III-1. There are 2 (two) student vacancies available in this call. However, in the event that not enough candidates meet the acceptance criteria, not all vacancies need to be filled in.

III-2. Each permanent member of PPGCosmo, who is a potential supervisor, and each collaborating member, who is a potential co-supervisor, will be allowed to take on, at the end of the selection process, at most 01 (one) new student under his/her supervision.

### **IV- Allocation of Studentships**

IV-1. The approval in this selection process does not guarantee the right of the student to receive a Ph.D. studentship.

IV-2. The available studentships will be distributed among the registered candidates respecting their ranking and the funding agencies' policies for the studentships. The distribution of the studentships will be carried out by the Studentship Commission, which is to be appointed by the PPGCosmo Council.

### **V - Selection Committee**

V-1. The committee in charge of the selection process described in this Call will be formed by three members to be chosen among the permanent members of PPGCosmo.

### **VI - Final Provisions**

Any instances unaccounted for by the above regulations will be ruled by the PPGCosmo Council.

