

## **NOTICE 04/2023 - SELECTION PROCESS FOR ADMISSION TO THE MASTER'S AND DOCTORAL PROGRAMS IN PHYSICS AND ASTRONOMY GRADUATE PROGRAM.**

The Committee of the PHYSICS AND ASTRONOMY GRADUATE PROGRAM (PPGFA), from the University of Vale do Paraíba (Univap), opens the applications for the selection of candidates for admission to the **MASTER'S, DOCTORAL, or DIRECT DOCTORAL** programs to be supervised by duly registered professors in the program.

### **I. APPLICATIONS**

Applications can be submitted from **June 14, 2023, to July 23, 2023**. **Candidates cannot apply simultaneously for the Master's and Direct Doctoral programs.**

#### **1.1 REQUIRED DOCUMENTS FOR APPLICATION IN THE SELECTION PROCESS**

The application will be done remotely: All documentation must be submitted through the online form indicated in item 11, according to the specific program. The responsibility for providing valid documents lies with the candidate, who may be held legally and criminally responsible for the invalidity or falseness of the submitted documentation. To complete the online application by following the link provided in item 11, the candidate must have various personal information ready and simple photocopies in PDF format as listed in items 1 to 10.

- 1) Image copy of the most recent Academic Transcript (Undergraduate and/or Master's) with official grades or ratings. For candidates applying to the Direct Doctoral program, an Academic Transcript with an excellent academic performance is required, i.e., a grade point average of 8.0 or equivalent according to the standard used by the candidate's home university.
- 2) Image copy of the Undergraduate Diploma (for all candidates) and image copy of the Master's Diploma or Defense Certificate (for Doctoral candidates), which can be submitted upon enrolment. Diplomas obtained from foreign universities must be authenticated by the Brazilian consulate in the country of origin and presented during enrolment. Candidates who are currently completing their undergraduate or master's degrees may apply conditionally for the Master's or Direct Doctoral program, respectively, provided that they submit a declaration stating the expected date of graduation, issued by the institution and signed by the course coordinator. In this case, the right to a place in the program will be subject to the submission of a document certifying the completion of the undergraduate or master's degree by the enrolment date.
- 3) Letter of interest in supervision. This letter should be provided to the candidate by one of the professors in the program, via email, during the application period. The professors registered in the PPGFA are listed on the following link:  
<https://www.univap.br/univap/pos-graduacao/stricto-sensu/mestrado-e-doutorado-em-fisica-e-astronomia> (navigate to "Corpo Docente" - Faculty Members). The candidate should contact the PPGFA faculty member via email in advance to inquire about their availability and interest in supervision, and request the letter.
- 4) Updated curriculum vitae at the Curriculum Lattes database ([https://www.cnpq.br/cvlattesweb/pkg\\_cv\\_estr.inicio](https://www.cnpq.br/cvlattesweb/pkg_cv_estr.inicio)) with a registered ORCID number

- (<https://orcid.org>). During the application process, the candidate should provide only the link to their curriculum. If there are scientific articles without a DOI, the candidate should provide a shared cloud link with copies of these articles for the internal committee's reference.
- 5) Full name and email address of two professors from an Higher Education Institution, or professionals from the productive sector, who would be willing to provide recommendation letters for the candidate upon request by the selection committee via email. The candidate should contact the professors before filling out the application form.
  - 6) Identification document numbers (ID) and Tax Identification Number (CPF). Foreign candidates should provide the RNM (National Migration Registry) number or passport number.
  - 7) For Master's or Direct Doctoral candidates who have participated in Scientific Initiation or Scientific Outreach projects with **scholarships granted by funding agencies**, documentary evidence should be presented.
  - 8) Direct Doctoral candidates should provide proof of two years of Scientific Initiation with scientific results in the field of Physics and Astronomy or a related area, i.e., publication or acceptance of a scientific paper in a journal relevant to the Graduate Program, as the first author. The documentation should be attached as a single file.
  - 9) Candidates interested in a scholarship for conducting activities at PPGFA should indicate their availability and commitment to the program during the application process.
  - 10) Students currently enrolled in the PPGFA who have not been awarded a CAPES Type I Scholarship and are interested in applying, if there are available scholarships, may apply under this notice. For these students, the required documentation will be as listed in items 1, 4, 6, 7, and 9. For item 1, they should submit the academic transcript of their current course. These candidates need to fill out only the application form in item 11.4.
  - 11) To apply:
    - 11.1) For the **Master's** program, fill out the application form at the following link: <https://forms.gle/h1con4qUxJsc5xnFA>
    - 11.2) For the **Doctoral** program, fill out the application form at the following link: <https://forms.gle/A6oNUkv3nVAsZFE47>
    - 11.3) For the **Direct Doctoral** program, fill out the application form at the following link: <https://forms.gle/mYpztzEwcihmjB1z7>
    - 11.4) For **students already enrolled in the PPGFA** who have not been awarded a CAPES Type I Scholarship, fill out the application form at the following link: <https://forms.gle/aSRk7S8oNKinSyCB6>

For further information, please contact the Postgraduate Secretary via email at [secretariaipd.ppg@univap.br](mailto:secretariaipd.ppg@univap.br) or visit the office in person at the following address: Postgraduate Secretary - University of Vale do Paraíba, Univap, Institute of Research and Development, IP&D, Av. Shishima Hifumi, 2911 - Urbanova, ZIP Code: 12244-000, São José dos Campos – SP, Brazil. Phone: +55 12 3947-1129.

## II. SELECTION PROCESS

### 2.1 INTERVIEW

Interviews will be conducted at the discretion of the selection committee between **July 25th and 26th, 2023**, from 9:00 AM to 5:00 PM BRT. The scheduling will be done via email after the application period ends. The purpose of the interview is to qualitatively assess the candidate's potential, aspirations, and availability to dedicate time to the program, and to discuss the research proposal. The interview, which is not a ranking criterion, will be conducted individually and remotely using the Zoom application. It will be scheduled by the Internal Committee of the PPGFA via email (from [ppgfa.univap@gmail.com](mailto:ppgfa.univap@gmail.com)).

## 2.2 RESEARCH AREAS

The PPGFA conducts research in the following areas:

- Astrophysics
- Space Physics
- Condensed Matter Physics

For more information about the research lines in each area, please refer to the program's webpage at <https://www.univap.br/univap/pos-graduacao/stricto-sensu/mestrado-e-doutorado-em-fisica-e-astronomia> (navigate to Áreas de Concentração section).

## 2.3 CANDIDATE SELECTION

The selection of candidates through document analysis is a ranking process and will be conducted as follows:

2.3.1 The assessment will be carried out by a committee composed of the coordinator and permanent professors of the PPGFA, with the participation of a student representative. The current members can be found on the program's webpage: <https://www.univap.br/univap/pos-graduacao/stricto-sensu/mestrado-e-doutorado-em-fisica-e-astronomia>;

2.3.2 Selection criteria: The ranking of candidates will be based on the analysis of academic transcripts and curriculum vitae, using the following criteria:

$$\text{Result} = M + IC \times K + (1,5 \times QA) + QB + (0,25 \times NQ),$$

where:

- **M**: the average grade of courses taken in the Master's program (for candidates applying to the Ph.D.) or the average grade of courses taken in the undergraduate program (for candidates applying to the Master's or Direct Ph.D)
- **IC**: the fractional number of years of Scientific Initiation or Teaching Assistantship in scientific dissemination projects with scholarships, duly verified by certificates;
- **K**: for candidates applying to the Master's or Direct Ph.D.:  $K=1$ ; for candidates applying to the Ph.D.:  $K=0$ ;
- **QA**: the number of publications in journals indexed in the Qualis/CAPES (<https://sucupira.capes.gov.br/sucupira/public/consultas/coleta/veiculoPublicacaoQualis/listaConsultaGeralPeriodicos.jsf>) system with an A concept;
- **QB**: the number of publications in journals indexed in the Qualis/CAPES system with a B concept;
- **NQ**: the number of publications in non-indexed journals in the Qualis/CAPES system or full papers presented by the student at scientific conferences, which have a proven relationship (at the discretion of the Internal Committee) with the following disciplines: Physics, Astronomy, Mathematics, Chemistry, Computer Science, Engineering, and related fields.

**Clarification:** For the calculations of **QA** and **QB**, the journal classification from the Qualis Journals system of CAPES that is most up-to-date on the website <https://sucupira.capes.gov.br/sucupira/public/consultas/coleta/veiculoPublicacaoQualis/listaConsultaGeralPeriodicos.jsf> will be used, considering the publication date of the results.

The final ranking of the candidates will be determined based on the selection criteria mentioned above. This ranking will be used for the purpose of competition, in case of availability of scholarships and/or discounts on University fees.

### III. SELECTION PROCESS RESULTS

The selection results, including the candidate's name and score, will be sent to the candidates via email and will be available on the PPGFA Univap website (<https://www.univap.br/univap/pos-graduacao/stricto-sensu/mestrado-e-doutorado-em-fisica-e-astronomia>) starting from **July 26, 2023**.

### IV. REASSESSMENT

Candidates may submit an appeal until **July 31, 2023**, and the final result will be announced on **August 1, 2023**.

### V. CLASSES

The course will be offered in a in-person format. In exceptional cases, classes may be conducted in a remote/synchronous and simultaneous format on the scheduled days and times using digital platforms. Typically, classes are held in the afternoon. This is not a distance learning (EAD) course. The professor actively teaches the class and interacts with the students, which means that pre-recorded video lectures and standardized materials will not be provided.

### VI. TIMELINE

ACTIVITY	DATE
Deadline for document submission	<b>From June 14, 2023, to July 23, 2023</b>
Interview dates	<b><u>July 25 and 26, 2023</u></b>
<b>Announcement of results</b>	<b><u>July 26, 2023</u></b>
Deadline for appeals	<b><u>July 31, 2023</u></b>
<b>Final results announcement</b>	<b><u>August 1, 2023</u></b>
Enrolment period	<b>July 31 to August 14, 2023, at Tudo Aqui – Univap – Urbanova. Address: Avenida Shishima Hifumi, 2911 – Urbanova, São José dos Campos – SP, CEP: 12244-000. Office hours: 9:00 am to 9:00 pm. Tel.: +55 12 3947-1099</b>
Start of classes	<b>August 14, 2023</b>

### VII. NUMBER OF AVAILABLE POSITIONS

The program offers 10 (ten) positions for the master's program and 10 (ten) positions for the doctoral program. In the case of available scholarship quotas, the allocation of scholarships will follow the ranking order based on the criteria presented in section 2.3.

### VIII. VALIDITY

The classification obtained in this Call for Applications will be valid until **October 14, 2023**, and may be extended for up to 90 days at the discretion of the internal committee of PPGFA. By applying to the selection process, the candidate agrees to comply with the rules of this Call and the Regulations of the Graduate Programs of IP&D.

## IX. DOCUMENTATION REQUIRED FOR ENROLLMENT

- Individual Taxpayer Identification Number (CPF);
- Civil identification documentation - for Brazilian applicants - RG (identity card) with the possibility of facial identification;
- Foreign applicants - RNE (National Registry for Foreigners) or CRNM (National Registry for Migrants) card;
- Birth certificate or marriage certificate (updated);
- Proof of residence address issued within the last 3 months (original document required);
- Undergraduate degree diploma, duly registered, or in the case of recent graduates who do not yet have a registered diploma, a Certificate of Completion of the undergraduate program stating the graduation date will be accepted;
- If the undergraduate degree was obtained abroad, the interested party must submit a legalized diploma stamped by the Brazilian Embassy or Consulate in the country where the degree was obtained, or the diploma must have the Apostille of The Hague. The diploma must be accompanied by a sworn translation unless it is issued in English or Spanish.

## X. FINAL REMARKS

Any doubts regarding this Call for Applications can be directed to the Internal Committee of Postgraduate Studies via email: [ppgfa.univap@gmail.com](mailto:ppgfa.univap@gmail.com).

Additional information and forms can be obtained from Monday to Friday, from 9:00 am to 11:30 am and from 2:00 pm to 5:00 pm (BRT), at the Postgraduate Secretary of IP&D (phone: +55 12 3947-1129) or by email: [secretariaipd.ppg@univap.br](mailto:secretariaipd.ppg@univap.br).

Dr. VALDIR GIL PILLAT  
Coordinator of PPGFA

Dr. ALEXANDRE SOARES DE OLIVEIRA  
Vice Coordinator of PPGFA

São José dos Campos, June 13, 2023.