



Edital nº ATAc-IAG/024/2023

CALL FOR ONE FACULTY POSITION IN THE DEPARTAMENTO DE GEOFÍSICA OF THE INSTITUTO DE ASTRONOMIA, GEOFISICA E CIÊNCIAS ATMOSFÉRICAS - UNIVERSIDADE DE SÃO PAULO, BRAZIL

The Dean of the Instituto de Astronomia, Geofísica e Ciências Atmosféricas of the Universidade de São Paulo (IAG/USP), São Paulo, Brazil, invites applications for a full-time tenure-track position. The call will be open for 60 (sixty) days, from **July 07th, 2023, at 8 a.m., to September 05th, 2023, at 5 p.m (GMT -3)**. This position number 1019384 comprises full-time dedication to research and teaching, level MS-3, RDIDP, and the non-negotiable entry-level annual salary (MS-3 level) is R\$ 191.894,30 plus benefits, relative to May 2023, at the Departamento de **Geofísica**, in **Geodynamics**, under the terms of art. 125, paragraph 1, of the General Rules of USP. A detailed description of the program for the examinations is presented as follows:

AGG0309 – Evolution and Dynamics of the Earth’s Interior: Fundamentals of chemical elements the atomic and molecular structure. The abundance of chemical elements in the Universe and Solar System. Theories about the formation of the Earth. The processes of differentiation of chemical elements in the Earth's interior and surface. Earth's physical structure: core, mantle, and crust. The dynamic structure of the Earth: definitions of lithosphere, asthenosphere, and mesosphere. Concepts of tectonics on a sphere, geometry of lithospheric plates, and types of edges. Tectonic and magmatic processes associated with internal dynamics. Lithosphere deformation in compressional and extensional environments: formation of mountain ranges, sedimentary basins, and mineral deposits.

AGG0431 – Geophysics of South America: The central tectonic units of the continent. Geophysical surveys at the regional level. Part I: Context of the South American plate. Oceanic and continental lithosphere. Craton. Mobile tracks. Patagonia. The Andes. Basins. Oceanic portion. Part II: Paleomagnetism. Heat Flow. Magnetotelluric Data. The thickness of the crust and lithosphere globally and in South America. Earth tide. Geoid. Gravimetry. Magnetometry. Seismic Effort of South America and the Nazca Plate.

AGG5722 – Introduction to Global Tectonics: Earth’s Origin, structure, and chemical composition. Internal dynamic process. Plate tectonics theory. Earth’s shape and dimensions. The Earth’s gravitational field and the central mass distribution anomalies. Earth’s magnetic field. Paleomagnetism and past plate tectonic movement. Contextualization of Modern Seismology. Elastic wave propagation in the interior of the Earth, seismic velocities, and 1D and 3D seismological Earth structure. World Seismicity. Focal Mechanism. Continental and oceanic lithosphere. Geophysical studies of tectonics provinces.

The concurs will be disciplined by Brazilian constitutional principles, notably that of impersonality, as well as by the provisions of the Statute and General Regulations of the Universidade de São Paulo and the Regulations of IAG/USP.



Considering the appointment to the position according to Notice CCD nº 001/2022, the primary emphasis of the indicated teacher's professional performance should correspond, in all career evaluations, to the "Research and Innovation" aspect. However, this does not exempt him/her, from participating in all three aspects ("Teaching", "Research and Innovation" and "Culture and University Extension").

1. Applications must be submitted exclusively via the website <https://uspdigital.usp.br/gr/admissao> in the period stated above, and the candidate must fill in the requested personal data and attach the following documents:

I - Detailed Curriculum Vitae (memorial) outlining the candidate's experience, list of published papers, academic activities, and any complementary information that enables the evaluation committee to assess the merits of the applicant in the specific field of this announcement, and associated documents supporting the information provided. The registration system will request independent digital files for memorial and supporting document(s). A detailed memorial is the presentation of a reflexive analysis of the candidate's academic formation, professional experiences, publications, and other information concerning academic and professional life, indicating motivations and meanings;

II - proof that the candidate holds a Ph.D. degree awarded by USP, recognized by it, or of validity in Brazil;

III - For Brazilian male applicants, proof of discharge from military service;

IV - For Brazilian applicants, an Electoral Acquittance Certificate or Detailed Certificate issued by the Electoral Court less than 30 days from the beginning of the application period;

V - Official identity document.

VI - Research proposal, limited to 20 double-spaced pages, excluding cover, summary, and references, using font size 11, in digital format, written in Portuguese or English.

§ 1st – Supporting documents of the memorial referred to, in item I, such as models, works of art, or other materials that cannot be digitized, shall be presented until the last business day preceding the beginning of the public competition.

§ 2nd - Links to Dropbox, Google Drive, or any other website whose content can be changed by the applicant will not be accepted as supporting documents.

§ 3rd - For item II, defense minutes without homologation information will not be accepted when the Ph.D. granting title depends on this procedure within the issuing Educational Institution. The applicant must be aware that, in this case, the absence of homologation proof will imply the rejection of the application.



§ 4th - Applicants already working at USP as professors are exempted from requirements III and IV, provided that they have complied with them at the time of their initial contract.

§ 5th - Foreign applicants are exempted from requirements III and IV and must prove that they are in a regular situation in Brazil.

§ 6th – An appointed foreign applicant may only take office if holding a temporary or permanent visa, which grants the holder permission to exercise remunerated activities in Brazil.

§ 7th - Upon registration, applicants with special needs must submit a request for the necessary conditions being provided during the examinations.

§ 8th - It is the sole responsibility of the applicant to verify the order of the uploaded files at <https://uspdigital.usp.br/gr/admissao>. Be aware that uploading files in a different order will imply a rejection of the application.

§ 9th - It is the sole responsibility of the applicant to verify the integrity (front and back) and readability of the uploaded files, being the candidate aware that, if he/she does not remedy any irregularity in uploading an incomplete or illegible document during the registration period, the application will be rejected.

§ 10 - By no means, extra documents will be accepted once the period of application is closed.

§ 11 - Upon registration, the candidate who self-identifies as black, brown, or indigenous shall indicate his/her interest in participating in the differentiated scoring system provided for in item 12 and its paragraphs of this Notice.

§ 12 - To be entitled to the bonus for self-declared black and brown candidates, the candidate must have phenotypic traits that characterize him/her as black, black, or brown.

§ 13 - The self-declaration as black or brown made by the candidate who expresses his/her interest in participating in the differentiated scoring system will be subject to confirmation through a hetero-identification board.

§ 14 - If the self-declaration of racial affiliation is not confirmed, the candidate - after an administrative procedure in which they have ensured the right to be heard and a full defense, without prejudice to other civil and criminal sanctions that may apply - will be eliminated from the competition and, if appointed, will be subject to the nullification of their admission to public service or employment.

§ 15 - To confirm the self-declaration of the indigenous candidate, the Administrative Registry of Indigenous Birth (RANI), or in its absence, the Administrative Registry of Indigenous Birth (RANI) of one of their parents, shall be required at the time of registration.



§ 16 - Exceptional situations may be evaluated by the Inclusion and Belonging Council, which may confirm the candidate's self-declaration as indigenous through a combination of a memorial and an ethnic affiliation statement signed by chiefs, tuxauas, indigenous community leaders, associations, and/or representative organizations of indigenous peoples in their respective regions, under the penalties of the law.

§ 17 - Upon registration, foreign applicants may submit a written request to take the application exams in English. The contents of the examinations conducted in English or Portuguese will be identical.

2. The Board of Academic Affairs of IAG/USP will judge and announce the formal acceptance of the applications.

Sole paragraph - The examination of the candidates will take place within 30 to 120 days, after the formal acceptance of the applications (counting from the date of publication in the São Paulo State Official Gazette).

3. The examination of the candidates will be carried out according to objective criteria, in two phases, and graded by each member of the Examining Committee:

1st phase (eliminary) - written exam (weight 1).

2nd phase - I) Analysis and public examination of the memorial (weight 5);

II) Teaching exam (weight 2);

III) Public defense of the research proposal (weight 2).

§ 1st - The call for candidates to take the exams will be published in the São Paulo State Official Gazette.

§ 2nd - Candidates who present themselves after the scheduled time will not be allowed to take the exams.

4. The written exam, which will deal with a matter of general and doctrinal order, will be carried out under the provisions of art. 139 and its single paragraph of the General Regulations of USP.

I - The examining committee will prepare and announce a list of ten topics, based on the program detailed above, 24 (twenty-four) hours before the drawing of the topic, being permitted to require candidates to carry out other activities related to the concurs during this period;

II - Immediately after becoming aware of the examination topics, candidates may ask to replace one or more topics they understand not belonging to the program. The Examining Committee will decide on the claim and if necessary, replace the topics under objection;

III - after drawing the topic, the non-extendable period of five hours of the exam begins;



IV - sixty minutes, after the drawing, it will be allowed to consult books, periodicals, and other bibliographic documents;

V - the notes made during the consultation period may be used during the exam, and should be written on initialed papers by the examining committee and attached to the final text;

VI - the written exam, which will be read in public session by the candidate, will be copied and delivered to the members of the examining committee when the session is opened;

VII - each exam will be evaluated, individually, by the members of the examining committee;

VIII - candidates who obtain, from the majority of the members of the examining committee, a minimum score of 7 (seven) will be considered qualified for the 2nd phase;

IX - the examining committee will present, in public session, the scores received by the candidates.

5. At the end of the evaluation of the written exam, each candidate will receive a final score from each examiner, taking into account the possible application of differentiated scoring according to item 12 of this Notice.
6. Only the successful candidates in the first phase will participate in the second phase.
7. The evaluation of the memorial, expressed by a global grade, including argument and evaluation, should reflect the merit of the candidate.

Sole paragraph – the grading of the memorial must consider the following:

I - the scientific, literary, philosophical, or artistic production;

II - university teaching activities;

III - services to the community;

IV - professional or other activities, if applicable;

V - degrees and other university honors.

8. The teaching exam will be public, with a minimum duration of forty and a maximum of sixty minutes of lecture.

I - then examining committee, based on the program detailed above, will organize a list of ten topics, which the candidates will know immediately before drawing the topic;

II - Immediately after becoming aware of the examination topics, candidates may ask to replace one or more topics they understand not belonging to the program. The Examining Committee will decide on the claim and if necessary, replace the topics under objection;



III - the drawing of the topic will be done twenty-four hours before the teaching exam, and the candidate is waived during this period;

IV - the candidate can use the teaching material that he/she deems necessary;

V - if necessary, the candidates will be divided into groups of a maximum of three, observing the order of registration, to draw the topics and conduct the exam.

VI - When the 60th minute of the exam is reached, the examining committee will interrupt the candidate.

VII - If the lecture finishes before reaching 40 minutes, the examining committee will assess a zero score to the candidate in the teaching exam.

9. The public defense of the research project aims to assess the scientific knowledge and previous experience on the topic proposed by the candidate; the clarity of the candidate's answers to the examining committee questions; the adequacy of the proposal to the aforementioned area of knowledge, in addition to its originality and feasibility.

I - for the public defense of the research proposal, the candidate must make a presentation of, at most, 15 (fifteen) minutes of the proposal;

II - the defense will be carried out in the form of a dialogue, at most 60 (sixty) minutes for all examiners and 60 (sixty) minutes for the candidate.

10. At the end of the assessment of the exams, each candidate will receive from each examiner a final grade, which will be the weighted average of the grades awarded by him/her in both phases, observing the weights set out in item 3 and the potential application of differentiated scoring according to item 12 of this notice.

11. Exam grades may range from zero to ten to the first decimal place.

12. Differentiated scoring will be applied to black, brown, and indigenous candidates, as specified herein.

§ 1 - The calculation formula for the differentiated scoring to be assigned to black, brown, and indigenous candidates in all stages of the public competition is:

$$PD = (MCA - MCPPI) / MCPPI$$

Where:

- PD is the differentiated score to be added to the grades of all black, brown, or indigenous candidates who expressed interest in participating in the differentiated scoring.

- MCA is the average score of the open competition among all candidates who scored, excluding those disqualified, i.e., those who did not reach the minimum score mentioned in items 4 and 14 of this Notice. "Open competition" refers to all candidates who scored and



did not declare themselves as black, brown, or indigenous, as well as those who, having declared themselves as such, chose not to participate in the differentiated scoring.

- MCPPI is the average score of the PPI competition among all candidates who scored, excluding those disqualified.

§ 2 - The formula for applying the differentiated scoring to the final grades of black, brown, and indigenous candidates in each stage of the public competition is:

$$\text{NFCPPI} = (1 + \text{PD}) * \text{NSCPPI}$$

Where:

- NFCPPI is the final grade in the stage of the public competition, after the application of differentiated scoring, which will determine the candidate's ranking in the competition stage, limited to the maximum score specified in the notice. At the end of the public competition stage, the final grade becomes the candidate's simple grade.

- NSCPPI is the simple grade of the beneficiary candidate, to which the differentiated scoring will be applied.

§ 3 - The calculations referred to in paragraphs 1 and 2 of this item must consider two decimal places and fractions equal to or greater than 0.5 (five-tenths) must be rounded to the next whole number.

§ 4 - The differentiated scoring (PD) provided in this item applies to all eligible beneficiaries, i.e., those who have achieved the minimum performance established in the competition notice, considering the simple grade for this purpose.

§ 5 - If there are no beneficiaries of differentiated scoring among the eligible candidates, the differentiated scoring will not be calculated.

§ 6 - The differentiated scoring will not be applied when, in the calculation formula for differentiated scoring (PD), MCPPI (average score of the PPI competition) is higher than MCA (average score of the open competition).

13. The result of the contest will be proclaimed by the examining committee immediately after its conclusion, in a public session.
14. To be eligible, candidates must achieve a minimum final grade of seven from most examiners.
15. Each examiner will nominate the candidate he/she graded the highest.
16. The candidate receiving the most nominations by the Examining Committee will be indicated for an appointment.



17. The effective appointment to the position depends on a medical examination conducted by the State's Department of Medical Skills (DPME), under Article 47, VI, of Law No.10.261/68.
18. The appointment of the teacher approved in the contest, as well as the other resulting measures, will be ruled by the terms of Resolution USP No. 7271/2016.
19. The teacher in RDIDP must maintain an exclusive employment relationship with USP, under the terms of article 197 of the General Rules of USP.
20. The public competition will be valid immediately and will be proposed for appointment only to the candidate indicated for the position announced by this call.
21. The candidate will be summoned for tenure by the São Paulo Official State Gazette.
22. Further information, as well as the rules of the public competition, are available to those interested in the Academic Affairs Assistance of the IAG/USP, by e-mail: atac-iag@usp.br.

Note: For the production of legal effects of the present document in the Federative Republic of Brazil an attached version issued in Portuguese is required. In the event of a conflict between the English and Portuguese versions, the Portuguese version will prevail.