



Specific Admissions Process for the Master's Degree Program in Physics, under General Call for Applications PRPGP/UFSM No. 030/2025

The Graduate Program in Physics (PPGFIS) at the Universidade Federal de Santa Maria (UFSM-UFSM) announces that applications are now being accepted for admission to the Academic Master's Program in Physics in 2026.

The program will be a regular on-campus program in the city of Santa Maria and will last four semesters.

1. INTRODUCTORY PROVISIONS

1.1. It is the candidate's responsibility to be familiar with the rules set forth in this Specific Call and in the General Call to which it is linked (PRPGP/UFSM No. 030/2025).

1.2. This Specific Call follows the timetable of the General Call to which it is linked (PRPGP/UFSM No. 030/2025).

1.3. Changes to the Call through addenda, errata, and corrections, as well as the list of vacancies and the internal selection timetable, will be published as necessary on the webpage for Call No. 030/2025.

1.3.1. Other announcements, such as preliminary results for each stage and a list of scores, will be posted on the program's official website <https://www.ufsm.br/cursos/pos-graduacao/santa-maria/pgfisica>.

1.3.2. Questions can be addressed via email pgfisica@ufsm.br.

2. TARGET AUDIENCE

2.1. Graduates with a bachelor's or licentiate degree in physics or a related field.

3. OPEN POSITIONS AND SELECTION TIMETABLE

3.1. The available spots for each admission window, as well as the selection timetable, will be announced in a supplementary document to be published on the webpage for Call No. 030/2025, in accordance with the timetable set forth in the General Call.

3.2. If a supplementary document (schedule) is not published in one of the admissions windows, this indicates that the program will not be offering spots in that round of the admissions process.



4. APPLICATIONS

4.1. The PPGFIS offers the following research areas: Astronomy, Atmospheric Physics, Experimental Condensed Matter Physics, Nuclear and Elementary Particle Physics, Theoretical Condensed Matter, Statistical Mechanics and Complex Systems.

4.2. A list of faculty advisors is available on the Physics Graduate Program website at <https://www.ufsm.br/cursos/pos-graduacao/santa-maria/pgfisica>.

4.3. If a candidate submits more than one application, only the most recent application will be considered.

4.4. The PPGFIS will offer affirmative action spots, in accordance with [UFISM Resolution No. 068/2021](#), which establishes the Policy on Affirmative Action and Inclusion.

4.5. **DOCUMENTATION:** At the time of application, the candidate must upload the following documents:

4.5.1. Photo ID:

4.5.1.1. For Brazilians and foreign nationals residing in Brazil: a photo ID containing a CPF number (e.g., ID card, driver's license, passport, etc.). If the attached ID does not include the CPF number, the applicant must also attach a copy of the CPF document. If accepted, the CPF number is used to access the place confirmation system.

4.5.1.2. For foreigners without a CPF: passport. If accepted, the passport number is required at the time of place confirmation.

4.5.2. Document proving the minimum required degree, for Brazilians and foreigners:

4.5.2.1. Proof of Undergraduate degree:

- a) Undergraduate or higher education diploma (front and back); OR
- b) Certificate of Degree Program Completion issued by the responsible department of each higher education institution; OR
- c) Course Completion Statement issued by the Program containing the information specified in the template available in General Call No. 030/2025; OR
- d) Certificate of Expected Graduation, issued by the Office of the respective Program. NOTE: The Certificate of Expected Graduation will only be accepted for participation in the selection process, and the candidate must submit the Diploma, Certificate, or Declaration of Course Completion in compliance with the date specified in the General Call timetable.

4.5.3. Documents for candidate evaluation:

4.5.3.1. Proof of academic performance, which may be (i) official undergraduate program transcript OR (ii) proof of score on [the Brazilian Unified Physics Exam \(EUF\)](#). Other national or



international exams, such as the GRE (Graduate Record Examination) and UNIPOSRIO (Unified Graduate Physics Exam of Rio de Janeiro), may be accepted at the discretion of the Selection Committee;

4.5.3.2. Documented Lattes Curriculum (or equivalent) for the last three years (with copies of the documents cited in the curriculum).

4.5.3.3. Failure to submit any evaluation documents will result in a score of zero being assigned to the candidate in the stages where the document is used.

4.5.3.4. The evaluation form in ANNEX 1 of this Call, duly completed, covering the last three years plus the year in which the application is submitted.

4.5.3.5. Supporting documents related to the items listed on the evaluation form.

4.5.3.6. Pursuant to Resolution No. 064/2021, the period of analysis of the Lattes Curriculum for women who have had or adopted children will be extended by 2 years beyond the standard period.

4.5.4. Failure to submit any documents will result in the rejection of the candidate's application.

5. SELECTION CRITERIA

5.1. The selection process will be conducted in three stages: (i) curriculum review; (ii) review of undergraduate academic performance; and (iii) individual interview, to be conducted in person or via Google Meet at the discretion of the Selection Committee.

5.2. The review of the CV, which accounts for 4.00 (four) points of the candidate's final score, takes into consideration the following criteria related to the candidate's scientific background: participation in undergraduate research, presentation of papers at conferences and academic events, publications, and presentation of abstracts and scientific articles at events, in accordance with the scoring system set forth in ANNEX 2 of this specific Call for applications;

5.2.1 The scores for this stage will be normalized (scaled) based on the highest score obtained by any of the candidates.

5.3. Analysis of undergraduate academic performance, with a weight of 4.00 (four) of the candidate's final score. The academic performance score (APS) may be calculated in one of the following ways:

(i) Using the academic transcript. In this case, the APS will be calculated as the average of the grades for the courses listed below or similar courses when the student has completed the program at another institution or when they come from a related field of study. If the candidate is currently enrolled in one of the evaluated courses, it will not be included in the calculation of the average. Courses not listed on the candidate's transcript receive a grade of zero. The evaluated courses are:

- Newtonian Mechanics,



- Thermal Physics,
- Oscillations, Waves, and Fluids,
- Electricity and Magnetism,
- Optics,
- Mathematical Physics I,
- Thermodynamics,
- Classical Mechanics I,
- Electromagnetism I,
- Quantum Mechanics I,
- Quantum Mechanics II,

(ii) Using the score from the Unified Physics Exam (EUF). In this case, the score will be calculated as follows: $APS = (N_{euf} \times 6.0) / M_{euf}$, where N_{euf} is the score obtained by the candidate on the EUF and M_{euf} is the average of the scores of all candidates from the same edition of the EUF exam. The APS is capped at 10 points.

5.3.1. If the candidate submits their academic transcript and proof of their EUF score, the highest APS obtained will be considered.

5.3.2 The scores for this stage will be normalized (scaled) based on the highest score obtained by any of the candidates.

5.4. The deadline for the scores from the first and second stages of evaluation to be published (review of the CV and academic performance) and the period for requesting reconsideration will be published in the timetable.

5.5. The interview will account for 2.00 points of the candidate's final score. During the interview, the candidate may be asked questions regarding topics in General Physics and relevant aspects of their academic and/or professional career, such as: the time taken to complete their undergraduate degree, the candidate's choice of this Program over other graduate programs, and specific knowledge required for the development of the graduate research project. The Selection Committee may interview the candidate for up to 15 minutes.

5.5.1. Interviews will be timetabled by PPGFIS and may be conducted in person or via Google Meet, at the discretion of the Selection Committee. The interview timetable, as well as the times for connectivity tests (when applicable), will be posted on the PPGFIS website, in accordance with the timetable provided



in each admissions window. If the interview takes place remotely via Google Meet, the access link will be sent by email, and the candidate should confirm receipt in advance.

5.5.2. The candidate is responsible for conducting the connectivity test with the Selection Committee, when requested, ensuring an internet connection with sufficient bandwidth to transmit sound and video in real time. The Selection Committee will not be held responsible for connectivity issues on the candidate's end during the interview.

5.5.3. If the candidate does not appear in person, or does not join the online environment if the interview takes place via Google Meet, within 5 (five) minutes after the time stipulated in the timetable for the start of the interview, they will be considered absent, and a score of zero will be assigned for that selection stage.

6. SCORING

6.1. For the classification of candidates, weightings will be applied to the scores obtained in the following stages: (i) CV review; (ii) review of undergraduate academic performance; and (iii) interview.

6.2. Candidates who receive a score lower than 3.00 in stages (i) and (ii) will be disqualified and will not proceed to stage (iii).

6.3. The minimum overall score for a candidate to be eligible for selection is 5.00 points.

6.4. Candidates will be ranked according to their overall score, from highest (first place) to lowest, including all candidates with an overall score of 5.00 or higher.

6.5. In the event of a tie in the final score of the selection process, the tiebreaker will be determined in order of priority by the following criteria:

6.5.1. Highest score on the academic performance review;

6.5.2. Highest score on the CV review;

6.5.3. The oldest candidate will be given priority.



Ministry of Education
Universidade Federal de Santa Maria
Master's Program in Physics

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UNIVERSIDADE FEDERAL DE SANTA MARIA
MASTER'S PROGRAM IN PHYSICS

APPENDIX 1

EVALUATION FORM

1.a Articles published or accepted for publication in indexed journals with an impact factor (limited to 2 articles):
Article 1 - Article title and DOI
Article 2 - Article title and DOI
1.b Article published or accepted for publication in journals without an impact factor (limited to 2 articles):
Article 1 - Article title and DOI
Article 2 - Article title and DOI
1.c Paper published at an international conference (limited to 2 papers):
Paper 1 - Paper title
Paper 2 - Paper title
1.d Publication of an abstract or paper presentation at an international conference (limited to 3 papers):
Paper 1 - Paper title
Paper 2 - Paper title
Paper 3 - Paper title
1.e Publication of full paper, paper abstract, or presentation at a national conference (limited to 3



papers):
Paper 1 - Paper title
Paper 2 - Paper title
Paper 3 - Paper title
1.f Participation in conferences and workshops (limited to 3 participations):
Event 1 - Name of event
Event 2 - Name of event
Event 3 - Name of event
1.g Completion of undergraduate research (limited to 6 semesters):
Total number of semesters



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APPENDIX 2

CRITERIA FOR CURRICULUM VITAE ANALYSIS

The CV review of candidates for the PPGFIS Master's program will be based on the score assigned to each candidate according to their Scientific Output (SO).

1. Each item of scientific output will be assigned a value $SO(k)$, as follows:

1.a An article published or accepted for publication in an indexed journal with an impact factor (IF) will receive $SO(k) = \text{Impact Factor (IF)} \times \text{multiplicative factor (MF)}$, limited to three articles. The IF will be obtained from the most recent JCR/Clarivate table.

1.b Article published or accepted for publication in a journal without an IF: $SO(k) = 0.20 \times MF$, limited to three articles.

1.c Paper published at an international conference: $SO(k) = 0.30 \times MF$, limited to two papers.

1.d Publication of an abstract or paper presentation at an international conference: $SO(k) = 0.20 \times MF$, limited to three papers.

1.e Publication of a full paper, paper abstract, or presentation at a national conference: $SO(k) = 0.20 \times MF$, limited to three papers.

1.f Participation in conferences and workshops: $SO(k) = 0.10$, limited to three participations.

1.g Completion of undergraduate research: $SO(k) = 0.25 \times \text{number of semesters}$, limited to six semesters.

2. Each candidate will be assigned a Scientific Output Score (SOS), calculated as the sum of the points obtained in the previous item.

3. If there are at least three candidates, the candidate with the highest SOS value (SOS_{max}) will receive a scientific production score equal to ten, $SO = 10.00$, and the scores assigned to other candidates will be calculated as: $SO = 10 \times [SOS/(SOS_{max})]$. If the highest SOS value is greater than 5.00 or the number of candidates is less than three, SOS_{max} will be equal to 5.00.

4. In the analysis of candidates' CVs, only the last three years, plus the year of this Call, will be considered, except for item 1.g.

5. Pursuant to Resolution No. 064/2021, the review period for the CV of women who have given birth to or adopted children will be extended by two years beyond the standard period.



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6. In items 1.a; 1.b; 1.c; 1.d; 1.e, and 1.f, the multiplicative factor MF is assigned based on the number of authors and the candidate's position of authorship: MF=1 if the candidate is the first author of the article or is verifiably the lead author in cases where authors are listed in alphabetical order. Otherwise, $FM = \frac{1}{\sqrt{NA}}$, where NA is the total number of authors.

7. Candidates who failed or withdrew from any graduate program, whether or not accredited by CAPES, will have their final score (FS) multiplied by 0.50.

8. Cases not covered herein will be reviewed by the PPGFIS Collegiate Body.