



**MINISTÉRIO DA EDUCAÇÃO UNIVERSIDADE FEDERAL DE ITAJUBÁ  
PRÓ-REITORIA DE PESQUISA E PÓS-GRADUAÇÃO**



**CALL FOR APPLICATIONS Nº. 02/2026**

**SELECTION PROCESS FOR ADMISSION TO THE MASTER'S AND DOCTORAL PPGMQ FOR  
THE SECOND SEMESTER OF 2026**

**NUP 23088.011320/2026-15**

In accordance with the provisions of the General Regulations of UNIFEI, art. 182, and CEPEAd Resolution No. 95/2018, of July 4, 2018, the Office of the Dean of Research and Graduate Studies of the Federal University of Itajubá (UNIFEI) and the General Coordination of the PPGMQ-MG of the Federal University of Itajubá (UNIFEI) HEREBY ANNOUNCE that from May 9, 2026, to June 13, 2026, applications will be open for the selection process for the admission of regular students to the master's and doctoral programs, for entry in the second semester of 2026.

**Lead Institution**



**Partner Institutions**



**Collaborating Institutions**



## **1. OBJECTIVE**

This Call for Applications aims to select candidates for admission to the **MASTER'S** and **DOCTORAL PROGRAMS** of the PPGMQ-MG, coordinated by UNIFEI, with the goal of training high-level human resources in the program's fields of study.

## **2. GENERAL INFORMATION**

**2.1.** The General Council of the PPGMQ will be responsible for the selection committee, for appointing the proctors for the general chemistry knowledge examination, and for the examination grading committee.

**2.2.** The examinations will be held on the premises of the institutions participating in the PPGMQ-MG: UNIFEI, CEFET-MG, UFLA, UFOP, UFSJ, UFTM, and UFV. The specific locations will be announced on the website: <http://ppgmqmg.com.br/> by **June 16, 2026**.

**2.2.1.** Candidates may request to take the examination at another federal higher education institution. To do so, the candidate must send a request by email (ppgmqmg@gmail.com) by **June 08, 2026**, including the details of the federal higher education institution and the full contact information (telephone and email) of a faculty member (a permanent employee of the institution) who can proctor the qualifying and eliminatory examination.

**2.2.2.** Candidates may request to take the examination abroad. To do so, the candidate must send a request by email (ppgmqmg@gmail.com) by **June 08, 2026**, including the details of the institution and the full contact information (email) of the faculty member who can proctor the qualifying and eliminatory examination. The feasibility of administering the qualifying and eliminatory examination will be analyzed by the Committee responsible for the PPGMQ-MG selection process.

**2.3.** The PPGMQ-MG will make the complete call for applications, information, and relevant instructions for the selection process available to the candidate on the PPGMQ-MG website: <http://ppgmqmg.com.br/>.

**2.4.** By applying to this selection process, the candidate:

**2.4.1.** declares that they have read and understood all the terms and conditions of this Call for Applications and that they accept all regulations pertaining to the selection process;

**2.4.2.** agrees to be aware of any amendments, additions, addenda, or notices that may be published on the PPGMQ-MG website <http://ppgmqmg.com.br/>, of which they cannot claim ignorance;

**2.4.3.** authorizes the selection committee, without prior notice, to scan and/or dispose of any physical documents that may be produced as a result of their participation in the selection process, in accordance with the rules and procedures provided for in the relevant legislation.

**2.5.** Inquiries from interested parties will be handled exclusively by email: [ppgmqmg@gmail.com](mailto:ppgmqmg@gmail.com).

### **3. NUMBER OF POSITIONS**

**3.1.** The number of positions offered for entry in the first semester of 2026 is:

Program	Available Positions
Master's Program	60
Doctoral Program	36

**3.2.** The distribution of positions by Partner Institution is described in **Appendix I**.

**3.3.** The selection of candidates for the Master's and Doctoral programs will follow the specific Resolutions of the Affirmative Action Programs of the PPGMQ-MG's partner HEIs and will occur through the **General Competition System** and the **Reserved Positions System**.

**3.4.** All candidates will compete through the General Competition System.

**3.5.** Candidates who choose to compete through the Reserved Positions System must indicate the social group for which they intend to compete for reserved positions at the time of application.

**3.6.** Positions designated for the Reserved Positions System may be filled by candidates from the General Competition System, just as positions for the General Competition may be filled by candidates from the Reserved Positions System, except in the case of positions reserved as supplementary.

**3.7.** The Reserved Positions System is intended for candidates belonging to the following social groups: self-declared Black or Brown individuals; self-declared Indigenous individuals; self-declared Quilombola individuals; and persons with disabilities.

**3.8.** Table 1 details the number of positions for the General Competition System and the Reserved Positions System for the Master's and Doctoral levels.

**3.9.** A total of up to twelve (12) candidates for the Master's program and up to seven (7) candidates for the Doctoral program will be selected for the Reserved Positions, distributed across all participating HEIs of the PPGMQ-MG, as indicated in Table 1 below.

**3.10.** Each participating Institutions of the PPGMQ-MG will be responsible for the procedures related to admission through the Reserved Positions System.

**3.11.** Os(as) candidatos(as) estão cientes de que serão submetidos(as) às regras de solicitação de documentos de cada IES participante do PPGMQ-MG. Candidates are aware that they will be subject to the document request rules of each participating Institutions of the PPGMQ-MG.

**3.12.** Under no circumstances will a change of admission system and/or reserved position modality be made after the application for the selection process has been completed.

**Table 1: Distribution of the number of positions for the Master's and Doctoral programs, considering the General Competition and Reserved Positions Systems.**

Program	General Competition	Self-Declared Black or Brown Individuals	Self-Declared Indigenous Individuals*	Self-Declared Quilombola Individuals*	Persons with Disabilities*
Master's Program	48	12	2	2	2
Doctoral Program	29	7	2	2	2

\*Unfilled supplementary positions will not revert to the general competition.

#### **4. PREREQUISITES**

**4.1. Master's Program:** For candidates for the Master's in Chemistry, positions are open to holders of a Bachelor's degree/certificate in Chemistry or related fields at the time of enrollment, from courses authorized by the Ministry of Education (MEC).

**4.2. Doctoral Program:** For candidates for the Doctorate in Chemistry, positions are open to holders of a Bachelor's degree in Chemistry or related fields, from courses authorized by the MEC, and a degree/certificate/record of completion of a Master's degree in Chemistry or related fields at the time of enrollment, from programs authorized by the Coordination for the Improvement of Higher Education Personnel (CAPES).

#### **5. APPLICATIONS**

**5.1.** The application period is from **May 9, 2026, to June 13, 2026.**

**5.2.** The application for the Master's or Doctoral Program in Chemistry of the PPGMQ-MG consists of the following steps:

**5.2.1.** Filling out the online application form available at the website <http://ppgmqmg.com.br/>, which will be accessible from 8:00 AM on **May 9, 2026**, until 11:59 PM on **June 13, 2026.**

**5.2.1.1.** Persons with disabilities must inform the PPGMQ-MG at the time of application via email (ppgmqmg@gmail.com) so that accessibility conditions and other measures to enable their participation with equal opportunity in the selection can be arranged.

**5.2.1.2.** Master's and Doctoral candidates must indicate a faculty member affiliated with the PPGMQ-MG who is active in the research line in which the candidate is interested in developing their research. The names of both (advisor and candidate) will appear only on the candidate's application form to ensure the confidentiality and impartiality of the selection process.

**5.2.1.3.** Indicating a faculty member does not guarantee that they will be the candidate's actual advisor; it is only a suggestion.

**5.3.** By **June 15, 2026**, the list of registered applicants with their names and the Institution they are applying to will be published. After this date, the candidate will have two business days to file an appeal, to be sent to the email: [ppgmqmg@gmail.com](mailto:ppgmqmg@gmail.com). After this period, no challenges regarding the confirmed applications will be accepted.

**5.4.** No application fee will be charged for the selection process. However, after approval, each partner institution of the PPGMQ-MG has its own admission criteria, which may or may not include the payment of enrollment fees.

5.5. The schedule for the selection process is:

Activity	Date
Applications (Master's and Doctoral)	May 9, 2026, to June 13, 2026 (until 11:59 PM)
Deadline to request taking the exam at a different location than the PPGMQ-MG institutions	June 08, 2026 (11:59 PM)
Publication of the list of registered applicants	June 15, 2026
Announcement of Examination Locations	June 16, 2026
Period for appeals regarding the confirmation of applications	June 16-17, 2026
General Knowledge Examination in Chemistry	June 22, 2026 (1:30 PM to 5:30 PM)
Publication of the Examination Results	June 24, 2026
Period for appeals against the Examination Results	June 25-26, 2026
Publication of the Final Results	July 03, 2026

## 6. EVALUATION PROCESS: STAGES, RANKING, AND APPROVAL

6.1. For candidates of both levels, the selection process will consist of a multiple-choice examination on general knowledge in Chemistry, which is both eliminatory and qualifying, based on the program and recommended bibliography in this call for applications (**APPENDIX II**).

### 6.2. ACADEMIC MASTER'S AND DOCTORAL PROGRAMS

6.2.1. The selection will be conducted in one (1) single evaluation stage, which is **ELIMINATORY** and **QUALIFYING**.

6.2.2. Schedule with location, announcement of results, and duration of each evaluation/stage:

Activity	Date	Time	Location
STAGE – Eliminatory/Qualifying			
Multiple-choice examination	June 22, 2026	1:30 PM – 5:30 PM	As per item 2.3
Result	June 24, 2026	As per item 2.3	As per item 2.3
Final Result (after appeals)	July 03, 2026	As per item 2.3	As per item 2.3

6.2.3. The multiple-choice examination will have a duration of four hours and will consist of theoretical, analytical, and interpretative questions based on the syllabus of topics and the suggested bibliography in Appendix II.

6.2.4. The examination will consist of 40 (forty) multiple-choice questions.

6.2.5. The examination will be graded on a scale of 0 (zero) to 100 (one hundred)

points.

**6.2.6.** Master's and Doctoral candidates who pass the general knowledge examination will be ranked in descending order of the score obtained.

**6.2.7.** Candidates who obtain a score lower than 50 (fifty) points, i.e., 50% of the maximum possible score, will be eliminated.

**6.2.8.** In the event of a tie in the score, the tie-breaking criterion will be the oldest candidate.

**6.3.** The results of the examination for both levels will be published on the website <http://ppgmqmg.com.br/> by **June 24, 2026**.

**6.4.** The final results will be published on the website [www.ppgmqmg.com.br](http://www.ppgmqmg.com.br) by **July 03, 2026**.

## **7. APPEALS**

**7.1.** Appeals will be accepted regarding:

**7.1.1.** The confirmation of applications.

**7.1.2.** The result of the examination.

**7.1.3.** The deadline for filing an appeal will be 02 (two) business days after the publication of the event, starting on the first business day following the date of the event being appealed.

**7.2.** Any appeals must be sent exclusively to the email [ppgmqmg@gmail.com](mailto:ppgmqmg@gmail.com), within the deadline stipulated in the schedule.

**7.3.** The candidate must be clear, consistent, and objective in their request. Inconsistent or untimely appeals will be summarily rejected.

**7.4.** Any appeals regarding the examination questions must include the consulted bibliography.

**7.5.** The point(s) related to any question(s) that may be annulled will be awarded to all candidates who took the examination, regardless of whether they filed an appeal.

**7.6.** In the event of the provisions of item 7.5, there may be an eventual change in the list of admitted candidates.

**7.7.** The responses to appeals will be sent by the evaluation committee to the candidate's email address registered in the selection process.

## **8. ADDITIONAL INFORMATION**

**8.1.** The candidate's application will imply the knowledge and tacit acceptance of the rules and conditions for the selection process contained in this call for applications and in other relevant regulations.

**8.2.** At the time of enrollment, it is mandatory for candidates approved for UFOP to present proof of English language proficiency (see Appendix III).

**8.3.** This Call for Applications may be challenged, in a well-founded manner, via the email of the Multi-campus Graduate Program in Chemistry ([ppgmqmg@gmail.com](mailto:ppgmqmg@gmail.com)), within a period of up to two business days from its publication.

**8.4.** It is suggested that the candidate arrive at the examination location 30 minutes in advance.

**8.5.** A candidate will be allowed to enter up to 15 minutes after the scheduled start time

of the examination, but there will be no extension to the end time of the written exam.

**8.6.** All information regarding the selection process, such as locations, dates, and times of examinations, ranking, and approval of candidates, as well as the results of each phase, can be obtained on the PPGMQ-MG website: [www.ppgmqmg.com.br](http://www.ppgmqmg.com.br).

**8.7.** The Examination Committee reserves the right not to fill all positions.

**8.8.** Unfilled positions at any partner Institution of the PPGMQ-MG may be used at another Institution in the program, respecting the general ranking order.

**8.9.** Candidates ranked beyond the official number of positions may be called according to the availability of unfilled positions during the regular enrollment period, respecting the academic calendar of each Institution.

**8.10.** Approved candidates must consult the calendar and enrollment procedure for the PPGMQ-MG at the Institution for which they were approved.

**8.11.** At any time, the application, examinations, and enrollment of a candidate may be annulled if any falsehood in the declarations and/or any irregularities in the examinations and/or in the documents presented are verified.

**8.12.** Persons with disabilities must inform the PPGMQ-MG at the time of application so that accessibility conditions and other measures to enable their participation with equal opportunity in the selection can be arranged.

**8.12.1.** The request for special conditions will be met according to the criteria of feasibility and reasonableness.

**8.12.2.** The Selection Committee and the General Council of the Program will decide on matters not covered in this Call for Applications.

Itajubá, May 09, 2026.

**Profa. Dr<sup>a</sup>. Vanessa Silveira Barreto Carvalho**

Pró-Reitora de Pesquisa e Pós-Graduação

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## APPENDIX I

**Distribution of positions for the Master's and Doctoral Programs in Chemistry among the Partner Institutions:**

<b>Institutions</b>	<b>Master's</b>	<b>Doctorate</b>
CEFET-MG	15	06
UNIFEI	15	06
UFTM	00	06
UFLA	15	06
UFV	15	06
UFOP	00	06

## APPENDIX II

### Syllabus and Bibliography for the General Knowledge Examination in Chemistry

Atomic structure (modern atomic structure, electron configuration). Chemical Periodicity (Basic concepts of the periodic table, atomic/ionic radius, ionization energy, electron affinity, and electronegativity). Chemical reactions (predicting products of inorganic reactions, balancing). Stoichiometry (Stoichiometric relationships, excess reactants, impure reactants, reaction yield). Fundamentals of chemical bonding (Basic concepts, resonance structures, valence shell electron pair repulsion (VSEPR) model, molecular geometry, hybrid orbitals, and multiple bonds). Liquids and solutions (Intermolecular forces, concentration calculations, dilution, mixing solutions with and without chemical reactions). Kinetics (Collision theory and activated complex theory, elementary reactions, rate laws, catalysis). Equilibrium (Calculation of equilibrium constants, Le Chatelier's principle, acid-base and solubility equilibrium). Principles of Thermodynamics (Ideal gases, 1st and 2nd Laws of Thermodynamics, and Thermochemistry). Electrochemistry (Calculation of oxidation numbers, predicting spontaneity, galvanic cells, electrolysis, and the Nernst equation). Principles of Organic Chemistry (Nomenclature, isomerism, functional groups, and physical properties of organic compounds).

#### Suggested Bibliography

- 1 - P. Atkins; L. Jones. *Princípios de Química – questionando a vida moderna e o meio ambiente*. 5ª edição, Editora Bookman, 2012.
- 2 - T. L. Brown; H. E. LeMay Jr; B. E. Bursten; J. R. Burdge. *Química – A Ciência Central*. 9ª edição. Editora Pearson, 2005.
- 3 - J. B. Russel, *Química Geral*, vols.1 e 2. 2ª edição. Editora Pearson, 1994
- 4 - R. Chang (Author), M. J. F. R. (Translator) et al. *Química Geral: Conceitos Essenciais*, 4th ed., McGraw Hill: São Paulo, 2007.

## APPENDIX III

### Specific Requirements for the Positions at the Federal University of Ouro Preto (UFOP)

At the time of enrollment, it is **mandatory** for approved candidates to present proof of English language proficiency. It is recommended that candidates who intend to apply for the positions offered by UFOP and do not have proof of English proficiency consult the local coordinator in advance about the possibility of taking proficiency tests offered by the university. Approved candidates who do not present proof of English language proficiency **will be disqualified**.