



Pontifícia
Universidade
Católica do
Rio de Janeiro



DEPARTAMENTO DE ENGENHARIA
QUÍMICA E DE MATERIAIS

1st Annual Selection Call for Graduate Program in Chemical Engineering, Materials and Environmental Processes (PPG-Deqm)

Master's and Doctoral Degrees – Second Semester 2025

The Department of Chemical and Materials Engineering (Deqm) at the Pontifical Catholic University of Rio de Janeiro (PUC-Rio) announces the opening of the application process for the selection of new candidates for the Graduate Program in Chemical Engineering, Materials and Environmental Processes for the second semester of 2025. Selected candidates are expected to start their studies in August 2025.

1. About the Graduate Program

The Master's program duration is 24 (twenty-four) months, and the Doctoral program is 48 (forty-eight) months.

The program includes 3 (three) areas of concentration, each with 3 (three) research lines:

Chemical Engineering:

- Process Modeling, Optimization, Control, and Automation
- Chemical Processes and Catalysis
- Mineral and Metallurgical Processes

Materials and Nanotechnology:

- Synthesis, Processing, and Characterization of Materials
- Materials Performance and Integrity
- Microstructural Engineering

Environmental Processes:

- Green Chemistry
- Water and Industrial Effluent Treatment
- Waste Treatment



2. Application Process

Applications will be accepted from **May 19 to July 4, 2025**, via:

http://www.ccpa.puc-rio.br/inscricao_pos/.

Candidates must register in the Graduate Program Application System of PUC-Rio by clicking on "Clique aqui para fazer seu cadastro".

After completing the required information, candidates must select: **"Graduate Program in Chemical Engineering, Materials and Environmental Processes"**

"A password will be sent by email to continue the application."

Eligibility:

- **Master's:** Completed undergraduate degree in Engineering or related fields (Physics, Chemistry, etc.)
- **Doctorate:** Completed Master's degree in Engineering or related fields

Required documents (PDF format):

For Master's program:

- Birth or Marriage Certificate
- Undergraduate Transcript
- Undergraduate Diploma
- Updated PDF version of the Lattes CV
- Statement of Purpose (max. 3 pages): explaining motivation, chosen research line, and preferred topic

Note: A statement of graduation may be accepted temporarily if the diploma has not been issued.

For Doctoral program:

- As for Master's program, plus:
- Master's Transcript
- Master's Diploma

Note: A statement confirming completion of all requirements for the Master's degree may be temporarily accepted.



Recommendation Letters:

- At least **two professors** (providing full names and full institutional affiliations) from the candidate's undergraduate or graduate institution(s) should provide recommendation letters from their **institutional email addresses**.
- **Non-institutional emails or recommendations from outside academic institutions will not be considered and accepted.**

Professors will receive an email from the PUC-Rio system to submit their recommendation letters electronically.

There are no application or enrollment fees. Enrollment instructions will be sent via email. Foreign candidates may enroll by proxy and are not required to be in Rio de Janeiro for this purpose.

3. Selection Criteria

Applicants will be evaluated based on:

- Lattes CV
- Academic transcripts
- Statement of Purpose
- Recommendation letters

All items are **mandatory** and **non-compliance may result in disqualification**.

Interviews via Zoom may be requested at the Selection Committee's discretion to clarify academic background and alignment with the program.

4. Scholarships and Program Funding

Candidates enrolled full-time (minimum of 4 courses per semester) may apply for scholarships from funding agencies (e.g., CNPq, CAPES) to cover tuition and scholarship.

Candidates enrolled part-time will **not be eligible** for scholarships.

Project-based or partnership-funded scholarships are subject to specific rules. For details, candidates should contact the respective professors (project supervisors).

5. Additional Information



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More details can be found on the official program page:

A 20% quota of the available positions, conditional upon approval in the selection process, will be reserved for applicants who meet the criteria of diversity, equity, and inclusion (DEI). This category includes self-declared Black and Indigenous individuals, persons with disabilities (upon submission of a medical report), and LGBTQIA+ individuals. Applicants wishing to apply under the DEI quota must clearly state this intention in their statement of purpose. Additional cases that align with DEI principles may be considered by the selection committee at its discretion.

Submitting an application implies **full understanding and acceptance** of all terms outlined in this Call.

For inquiries:

- Email: ppg.deqm@puc-rio.br
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- Office: Room 501L, Cardeal Leme Building, PUC-Rio

Rio de Janeiro, May 12, 2025

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