



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

SELECTION PROCESS N° 03/2018: SELECTION OF FOREIGN CANDIDATES

**CALL FOR APLICATIONS FOR SELECTION OF MASTER/DOCTORATE
GRADUATE PROGRAM ON SCIENCE AND MATERIALS ENGINEERING**

The Coordination of Master/Doctorate Programs (PPG) in Science and Materials Engineering of the Federal University of Paraíba, Brazil, in its power, communicates the present notification which regulates the conditions for the entrance, through a SELECTION, in the referred program, for the academic year 2019 that starts on March the 11th.

The Program

The Graduate Program in Materials Science and Engineering of Federal University of Paraíba, Brazil, Master and Doctorate levels, was created, in 2011. It aims to prepare specialists with strong technical skills for the processes innovation and applications of new materials, to train qualified human resources for industrial sector and Researches and Development Institutions. Students are also involved in the search for new products, understanding the fundamental aspects related to the processing, microstructure and properties of the materials.

The fields of research are:

- I. Clays: Processing and Applications.
- II. Characterization and Properties of Materials.
- III. Catalysts Environmental Applications.
- IV. Fuel Cells.



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

- V. Advanced Ceramics.
- VI. Development of Polymeric Materials and their Composites.
- VII. Durability and Recycling of Materials and Waste.
- VIII. Alloys with Shape Memory Effect.
- IX. High Entropy Alloys.
- X. High Strength Aluminum Alloys.
- XI. Nanostructured, Quasicrystalline and Amorphous alloys.
- XII. Cement and Geopolymeric Materials.
- XIII. Non-Conventional Materials in Engineering.
- XIV. Materials for Energy Conversion.
- XV. Semiconductor and Magnetic Materials.
- XVI. Cellulose Nanowhiskers and their use in Nanocomposites.
- XVII. Polymers Derived from Glycerol from Biodiesel.
- XVIII. Production of Polymer Micro and Nanofibers.
- XIX. Rheology and Processing of Polymeric Materials.
- XX. Conductive Polymer Sensors.
- XXI. Numerical Simulation in Materials Engineering.
- XXII. Solidification

The Master level program takes two years and the Doctorate degree, between three to four years. The student must fulfill a certain number of credits and present a master's or doctoral thesis. Normally the period of the courses is divided in two semesters, from March to July and August to December. Concentrated courses can be also offered.



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

To obtain the master's degree, the student must complete 22 credits and present a MSc thesis. To obtain the doctorate's degree, the student must complete 35 credits and present a PhD thesis

Each credit corresponds to 15 class hours.

A limited number of scholarships are available each semester.

1. ABOUT THE APPLICATION

The application shall be accepted only if the candidate fills out the online form and attach a SINGLE FILE (MUST BE PDF) WITH AN INTRODUCTION OF THE PRELIMINARY PLAN OF THE DISSERTATION OR THESIS and the REQUIRED DOCUMENTATION requested in item 2 of this notification, on the first available field for the attachment of the file on the submitted application form.

Selective Process period: 12/14/2018 to 02/15/2019.

Program electronic address: ppcem@ct.ufpb.br.

2. ON THE REQUIRED DOCUMENTATION

- a) Coordinator's requirement, requesting the application on the selective process, according to this notification (**ATTACHMENT I**);
- b) Properly filled out application form, according to this notification (**ATTACHMENT II**);
- c) A recent photo;
- d) Copy of the under-graduation degree diploma or a certificate recognized by the National Education Council or a under-graduation diploma granted by a foreign Higher Level Educational Institution (IES), properly verified according to the law's terms; or a



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

certificate that confirms the candidate's qualification upon concluding the course before the enrollment in the institutional program;

e) Academic record;

f) Research Project (**ATTACHMENT III**).

2.1 The complementation of documents after the closure of the registration shall not be allowed.

2.2 The publication of registration, based on the analysis of the presented documentation, will be the responsibility of the PPG's coordination. The publication shall be at the program's secretary and on www.ufpb.br/pos/ppcem.

3. SELECTIVE PROCESS

The selection process will be done by a program commission based on the research project proposed by the candidate.

4. SCHEDULE OF THE SELECTION PROCESS

Submission of documentation: from 14th December 2018 to 7th February 2019

Analysis of the proposed project: 8th to 14th February 2019

Final result of the selection process: 15th February 2019

The commission,

12/10/2018.



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

ATTACHMENT I

APPLICATION REQUIREMENT

_____ requests your Honor.
registration in the Selection Process 03 / 2018 of the Graduate Program in Materials
Science and Engineering, on () Master's () Doctoral level, at the Federal University of
Paraíba, Brazil.

On these terms,
confirmation is requested

(City), _____ (Date) _____

Candidate signature



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

**ATTACHMENT II
APPLICATION FORM FOR THE SELECTION**

1. Personal data
Name: _____
Sex: <input type="checkbox"/> M <input type="checkbox"/> F Date of birth: ____/____/____
Naturality: _____ Nationality: _____
Parents names: _____
Passport: _____ Issuing country: _____
2. Residential address
Street/Av.: _____
District: _____ City: _____
Zip code: _____ Phone () _____
E-mail: _____
3. Academic information:
Graduation in : _____
Institution: _____ Year: _____
4. Application for:
Master's <input type="checkbox"/> Doctorate <input type="checkbox"/>
Research line: () _____
Intended advisor: _____
5. Does the candidate exercise any professional activity? <input type="checkbox"/> yes <input type="checkbox"/> no
Function: _____
Institution: _____
6. Extra Information:



**FEDERAL UNIVERSITY OF PARAIBA
GRADUATE PROGRAM IN MATERIALS SCIENCE AND
ENGINEERING**

ATTACHMENT III

RESEARCH PROJECT

Title

Author

Abstract (Maximum 1200 characters)

Introduction or Motivation (Maximum 3000 characters)

Objectives (Maximum 1200 characters)

State of the art (Maximum 5000 characters)

Experimental procedures (Maximum 5000 characters)

Expected results and impact (Maximum 3000 characters)

References