

### ANNEX 3

#### NUMBER OF VACANCIES FOR MASTERS AND DOCTORATE IN 2022/1

LINES OF RESEARCH	MASTER VACANCIES	DOCTORATE VACANCIES	TOTAL
Bioorganic and bioinorganic	8	3	11
Environmental Science	11	8	19
Materials Science and Technology	7	5	12
Science Education	6	3	9
<b>TOTAL VACANCIES</b>	<b>32</b>	<b>19</b>	<b>51</b>

#### LIST OF VACANCIES BY LINES OF RESEARCH, ADVISOR AND RESEARCH THEME - EACH CANDIDATE MAY APPLY FOR A SINGLE PLACEMENT, INDICATING THE LEVEL, ADVISOR AND CODE OF THE INTENDED VACANCIE

<b>LINE OF RESEARCH: BIOORGANICAND BIOINORGANIC - TOTAL = 11 VACANCIES (08 MASTER VACANCIES AND 03 DOCTORATE VACANCIES)</b>				
<b>LEVEL: MASTER - 08 VACANCIES</b>				
ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Edmilson José Maria	M	01	Synthesis of capsaicinoids with potential antibacterial activity	PPGCN-MBIO-01
Ivo José Curcino Vieira	M	01	Isolation and identification of compounds isolated from plants in the Atlantic Forest biome	PPGCN-MBIO-02
Jan Schripsema	M	01	Applications of metabolomics in food or medicinal plants	PPGCN-MBIO-03
Leda Mathias	M	02	Isolation, identification and biological and antioxidant activity of metabolites isolated from plants from the Atlantic Forest biome	PPGCN-MBIO-04
Luís Guilherme Mansor Basso	M	01	Biological membranes as therapeutic targets	PPGCN-MBIO-05
Maria Raquel Garcia Vega	M	01	Ethnopharmacology, medicinal plants, traditional peoples	PPGCN-MBIO-06
Rodrigo Rodrigues Oliveira	M	01	Chemophenetic analysis: association between the chemistry of natural products, phylogenetics and morphology, to understand the evolution between different species of angiosperms	PPGCN-MBIO-07
<b>LEVEL: DOCTORATE - 03 VACANCIES</b>				
ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Leda Mathias	D	01	Isolation, identification and biological and antioxidant activity of metabolites isolated from plants from the Atlantic Forest biome	PPGCN-DBIO-01
Maria Raquel Garcia Vega	D	01	Phytochemistry and potential of biological activities of medicinal plants	PPGCN-DBIO-02
Rodrigo Rodrigues Oliveira	D	01	Chemophenetic analysis: association between the chemistry of natural products, phylogenetics and morphology, to understand the evolution between different species of angiosperms	PPGCN-DBIO-03

LINE OF RESEARCH: ENVIRONMENTAL SCIENCE - TOTAL = 19 VACANCIES (11 MASTER VACANCIES AND 08 DOCTORATE VACANCIES)				
LEVEL: MASTER (11 VACANCIES)				
ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Aline Chaves Intorne	M	01	Microbial Bioremediation of Environmental Contaminants	PPGCN-MCA-01
Cibele Maria Stivanin de Almeida	M	01	Inorganic characterization of elasmobranchs found in Norte Fluminense as a tool for biodiversity conservation	PPGCN-MCA-02
Eliane Barbosa Santos	M	01	Climate Change and Extreme Weather Events	PPGCN-MCA-03
Eliane Barbosa Santos	M	01	Water and Extreme Hydrological Resources in Southeast Brazil	PPGCN-MCA-04
Jefferson Rodrigues de Souza	M	01	Selenium speciation and determination of essential and potentially toxic chemical elements in Sapucaia Nuts	PPGCN-MCA-05
Leonardo Mota	M	01	Volatile Organics on the Biofuels Route	PPGCN-MCA-06
Marcelo Gomes da Silva	M	01	Gases in Biological Systems	PPGCN-MCA-07
Maria Priscila Pessanha de Castro	M	01	Human exhalation biomarkers	PPGCN-MCA-08
Murilo de Oliveira Souza	M	01	Chemometry Application to Environmental, Agri-environment and/or Food Studies	PPGCN-MCA-09
Victor Haber Perez	M	01	Biomass thermochemical transformation	PPGCN-MCA-10
Victor Haber Perez	M	01	Processes Assisted by Magnetic Fields	PPGCN-MCA-11
LEVEL: DOCTORATE (08 VACANCIES)				
ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Cibele Maria Stivanin de Almeida	D	02	Investigation of atmospheric composition in particulate material and its environmental implications	PPGCN-DCA-01
Jan Schripsema	D	01	Metabolomics applied to environmental sciences	PPGCN-DCA-02
Leonardo Mota	D	01	Gases in Biological Systems	PPGCN-DCA-03
Marcelo Gomes da Silva	D	01	Gases in Biological Systems	PPGCN-DCA-04
Marcelo Silva Sthel	D	01	Gases in Biological Systems	PPGCN-DCA-05
Maria Cristina Canela Gazotti	D	01	Microplastics in the environment	PPGCN-DCA-06
Victor Haber Perez	D	01	Biomass thermochemical transformation	PPGCN-DCA-07
LINE OF RESEARCH: MATERIAL SCIENCE AND TECHNOLOGY - TOTAL = 12 VACANCIES (07 MASTER VACANCIES AND 05 DOCTORAL VACANCIES)				
LEVEL: MASTER (07 VACANCIES)				
ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
André Oliveira Guimarães	M	01	Evaluation of antioxidant activity of natural products using electronic paramagnetic resonance	PPGCN-MCTM-01
Juraci Aparecido Sampaio	M	01	Development and Characterization of New Materials for Photonics	PPGCN-MCTM-02
Leonardo Mota	M	01	Sensor Modeling and Simulation	PPGCN-MCTM-03
Luís Guilherme Mansor Basso	M	01	Structure and function of viral peptides	PPGCN-MCTM-04
Pablo Leite Bernardo	M	01	Doped magnetic nanoparticles for technological applications	PPGCN-MCTM-05
Roberto Trindade Faria Junior	M	01	Application of photothermal techniques in the characterization of soil-plant-atmosphere systems	PPGCN-MCTM-06
Roberto Weider de Assis Franco	M	01	Paramagnetic species in biological compounds	PPGCN-MCTM-07
LEVEL: DOCTORATE (05 VACANCIES)				

ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
André Oliveira Guimarães	D	01	Photothermal techniques and electronic paramagnetic resonance applied to petrophysics	PPGCN-DCTM-01
Juraci Aparecido Sampaio	D	01	Development and Characterization of New Materials for Photonics	PPGCN-DCTM-02
Maria Cristina Canela Gazotti	D	01	Preparation and characterization of materials with photocatalytic activity	PPGCN-DCTM-03
Sergio Luis Cardoso	D	02	TiO2-Porphyrin Nanofilms and Nanoparticles for Applications in Photocatalysis and Photovoltaic Solar Cells	PPGCN-DCTM-04

**LINE OF RESEARCH: SCIENCE EDUCATION - TOTAL = 09 VACANCIES (06 MASTER VACANCIES AND 03 DOCTORAL VACANCIES)**

**LEVEL: MASTER (06 VACANCIES)**

ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Carlos Eduardo Batista de Sousa	M	01	Philosophy and History of Natural Sciences	PPGCN-MEC-01
Carlos Eduardo Batista de Sousa	M	01	Neuroeducation and fundamentals of neuroscience	PPGCN-MEC-02
Fernando José Luna de Oliveira	M	01	Application of the history of science in teaching	PPGCN-MEC-03
Juraci aparecido Sampaio	M	01	Physics experiments as an integrative pedagogical tool in science teaching	PPGCN-MEC-04
Maria Priscila Pessanha de Castro	M	01	Use of new interdisciplinary technologies in science teaching	PPGCN-MEC-05
Simonne Teixeira	M	01	Heritage, museums and scientific memory in science education	PPGCN-MEC-06

**LEVEL: DOCTORATE (03 VACANCIES)**

ADVISOR	LEVEL	VACANCIES	RESEACH THEME	VACANCY CODE
Fernando José Luna de Oliveira	D	01	Application of the history of science in teaching	PPGCN-DEC-01
Jan Schripsema	D	01	A história das plantas medicinais brasileiras no ensino de ciências	PPGCN-DEC-02
Roberto Trindade Faria Junior	D	01	Science teaching-learning processes using everyday activities	PPGCN-DEC-03