

Sustainability in Coastal and Oceanic Ecosystems: Cluster of Excellence in the Extreme South of Brazil

CAPES/PrInt - FURG: 2019-2023



Institutional Program for Internationalization - CAPES - PrInt

CAPES/PrInt – Call 41/2017: 36 contemplated institutions

foster the construction, implementation and consolidation of strategic internationalization plans of the institutions contemplated in the areas of knowledge they prioritize

stimulate the formation of international research networks with a view to improving the quality of academic production linked to graduate studies

expand the actions to support internationalization in the graduate courses of the contemplated institutions

promote the mobility of teachers and students abroad, with emphasis on doctoral and postdoctoral students, and teachers, linked to stricto sensu graduate programs with international cooperation

encourage the transformation of participating institutions into an international environment

integrate other actions to promote Capes to the internationalization effort

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Introducing the...

FEDERAL UNIVERSITY OF RIO GRANDE -FURG



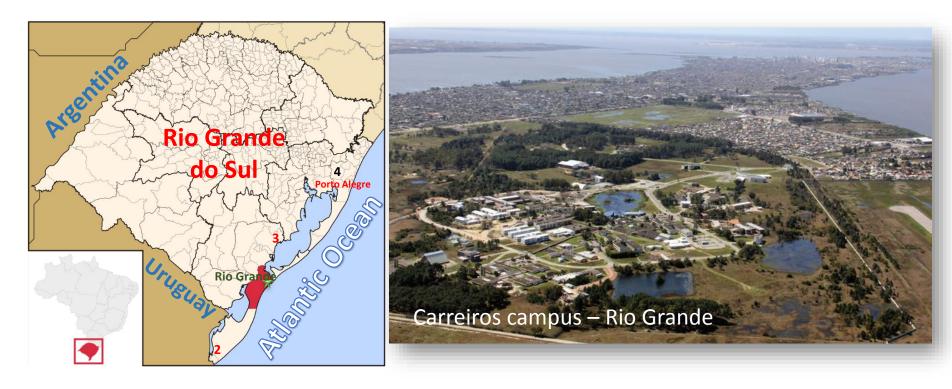
A university focused on the coastal and oceanic ecosystems!



FEDERAL UNIVERSITY OF RIO GRANDE -FURG

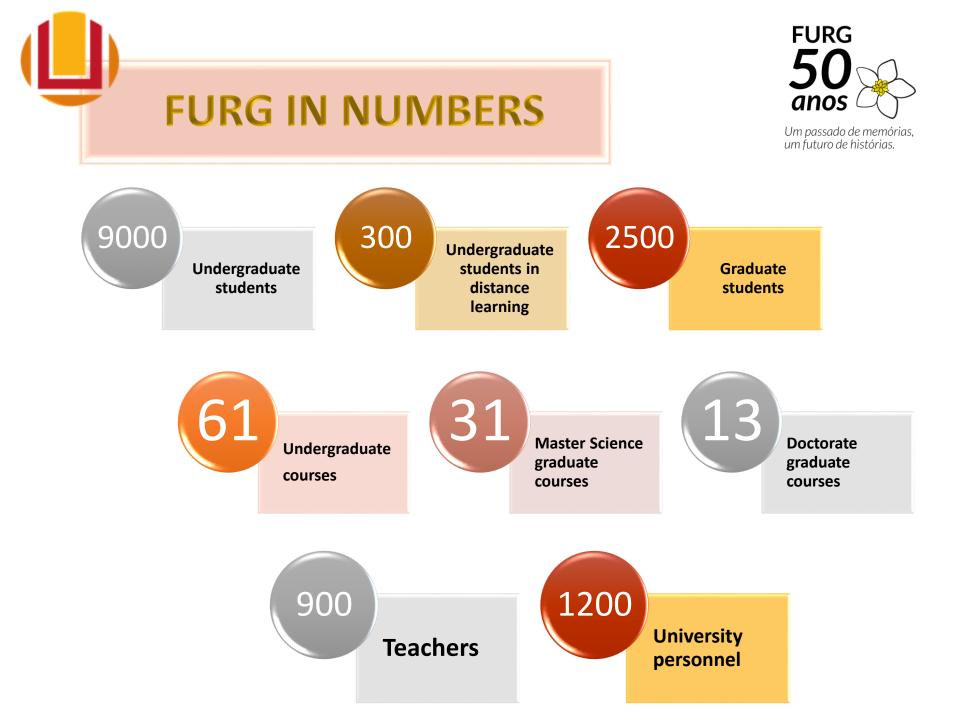


Um passado de memórias, um futuro de histórias.



Four universitary campi: Carreiros in **Rio Grande, Santa Vitória do Palmar** (2), São Lourenço do Sul (3) e Santo Antônio da Patrulha (4)

Twenty-five sites for distance learning courses!







Um passado de memórias, um futuro de histórias.



Sustainability in Coastal and Oceanic Ecosystems: Cluster of Excellence in the Extreme South of Brazil



Aligned with contemporary issues of global relevance, and the institutional vocation of FURG

Sustainability in Coastal and Oceanic Ecosystems: Cluster of Excellence in the Extreme South of Brazil

Management Group



Manager

- Prof. Eduardo Resende Secchi, PhD
- Dean of Research and Graduate studies FURG

Members - FURG



Prof. Carlos Prentice Hernandez, PhD School of Chemistry and Food - FURG



Prof. Mara Regina Santos da Silva, PhD Nursing School - FURG

Foreign Member



Prof. Gilberto Fillmann, PhD Oceanography Institute – FURG



Prof. Mauricio Magalhães Mata, PhD

Oceanography Institute – FURG



Prof. Martin Visbeck, PhD

GEOMAR Helmholtz Centre for Ocean Research Kiel - Germany



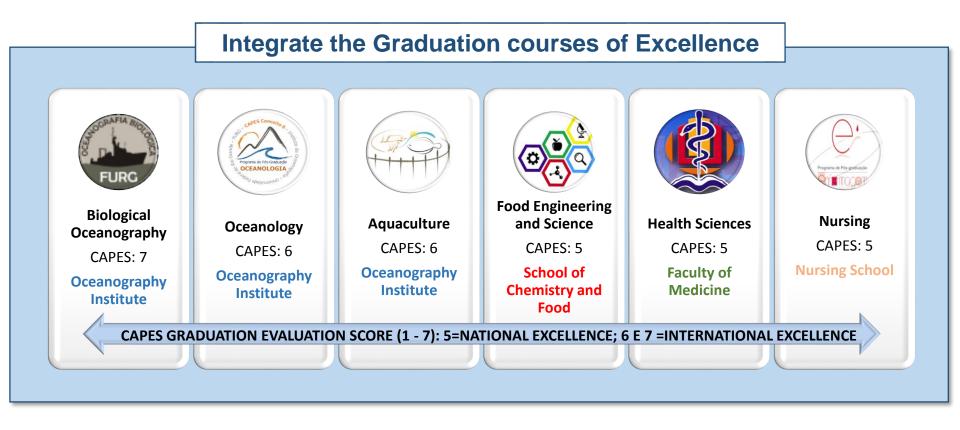
Prof. Luis Andre Nassr de Sampaio, PhD

Oceanography Institute – FURG



Prof. Ronaldo Olivera Cavalli, PhD Oceanography Institute – FURG

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MAIN ACTIONS

Train PhD students and researchers (senior or junior visiting professor) in institution of excellence abroad

Attract visiting international teachers and young talented researchers with international experience for the development of activities of teaching and research



Abroad missions to undertake agreements for collaboration to join FURG and international graduate courses, in special for double supervisors for PhD students and also to grant double PhD degrees in both institutions

COLLABORATION AGREEMENTS IN 2019

AGREEMENT TO GRANT DOUBLE PhD DEGREES:

 VRIJE UNIVERSITEIT BRUSSEL (VUB), BELGIUM / FURG: Biological Oceanography Graduation Course

PARMA UNIVERSITY, ITALY / FURG: Health Sciences Graduation Course

FUNDED BENEFITS

- Visiting Professor
- ✓ Junior Visiting Professor Abroad
- Senior Visiting Professor Abroad
- Pos Doctorate with Experience Abroad
- ✓ Young Talents
- PhD sandwich
- ✓ Missions Related to the Research Project

BENEFITS ARE DISTRIBUTTED AMONG FOUR SPECIFIC PROJECTS:

I. Bio/Geodiversity and Bio/Geoprospection in Coastal and Oceanic Ecosystems: Emphasis on the South Atlantic

II. Global Climate Change and its Consequences for Coastal and Oceanic Ecosystems

III. Safety and Food Quality from Coastal and Oceanic Living Resources

IV. Prevention and Control of Diseases and Illnesses that Affect Human Health and Quality of Life in Coastal Ecosystems

SPECIFIC PROJECT I

Bio/Geodiversity and Bio/Geoprospection in Coastal and Oceanic Ecosystems: Emphasis on the South Atlantic

Coordinator: Prof. Dr. Luis Henrique da Silva Poersch

Participating Graduate Programs: Oceanology, Biological Oceanography, Food Engineering and Science and Health Science

Main objective: Identify, map, quantify and monitor the bio and geodiversity of the oceans and their coastal zones, focusing especially in the South Atlantic.

- 1) Bio / Geodiversity in different Brazilian sedimentary basins
- 2) Marine pollution and its threats to biodiversity and ecosystems
- 3) Marine biodiversity and endangered species
- 4) Bioprospecting in coastal and oceanic ecosystems

BIO/GEODIVERSITY AND BIO/GEOPROSPECTION IN COASTAL AND OCEANIC ECOSYSTEMS: EMPHASIS ON THE SOUTH ATLANTIC

EXPECTED BENEFITS	2019	2020	2021	2022
Missions Related to the Research Project	3	4	3	-
PDSE - Ph.D. sandwich (6 months)	2	3	2	4
PDSE - Ph.D. sandwich (12 months)	-	1	-	-
Visiting Professor (15 days)	1	1	2	-
Visiting Professor (1 months)	1	1	1	1
Junior Visiting Professor Abroad (3 months)	-	1	-	-
Senior Visiting Professor Abroad (3 months)	-	1	-	-
Senior Visiting Professor Abroad (6 months)	-	1	1	-

SPECIFIC PROJECT II

Global Climate Change and its Consequences for Coastal and Oceanic Ecosystems

Coordinator: Prof. Dr. Margareth da Silva Copertino

Participating Graduate Programs: Oceanology, Biological Oceanography, Aquaculture.

Main objective: Assess the effects of global climate change on the oceans and their consequences for ecosystems and society.

- 1) Paleoceanography / Paleoclimatology
- 2) Ocean acidification and changes in the properties of sea water
- 3) Cryosphere, polar oceanography and high latitudes
- 4) Sea level rise and coastal erosion:

GLOBAL CLIMATE CHANGE AND ITS CONSEQUENCES FOR COASTAL AND OCEANIC ECOSYSTEMS

EXPECTED BENEFITS	2019	2020	2021	2022
Missions Related to the Research Project	2	3	3	-
Young Talents- A (6 months)	-	-	3	-
PDSE - Ph.D. sandwich (6 months)	2	1	-	1
PDSE - Ph.D. sandwich (12 months)	-	2	1	-
Visiting Professor (1 months)	-	2	-	-
Visiting Professor (6 months)	-	1	-	-
Junior Visiting Professor Abroad (3 months)	-	1	-	-
Senior Visiting Professor Abroad (3 months)	1	1	-	-
Senior Visiting Professor Abroad (6 months)	-	1	-	-

SPECIFIC PROJECT III

Safety and Food Quality from Coastal and Oceanic Living Resources

Coordinator: Prof. Dr. Jorge Alberto Vieira Costa

Participating Graduate Programs: Food Engineering and Science, Aquaculture, Biological Oceanography.

Main objective: Investigate the potential of living marine fishery resources and aquaculture as a sustainable source of high quality food quality for the growing human population.

- 1) Sustainable use of marine resources
- 2) Development of responsible aquaculture
- 3) Potential for aggregation of nutritional value to marine products
- 4) Development of new products through studies in food science

SAFETY AND FOOD QUALITY FROM COASTAL AND OCEANIC LIVING RESOURCES

EXPE	CTED BENEFITS	2019	2020	2021	2022
Miss	ions Related to the Research Project	-	1	2	-
	PDSE - Ph.D. sandwich (6 months)	-	1	2	1
	PDSE - Ph.D. sandwich (12 months)	-	-	1	-
	Visiting Professor (1 months)	-	1	1	-
	Junior Visiting Professor Abroad (6 months)	-	-	1	-
	Senior Visiting Professor Abroad (6 months)	-	-	-	1

SPECIFIC PROJECT IV

Prevention and Control of Diseases and Illnesses that Affect Human Health and Quality of Life in Coastal Ecosystems

Coordinator: Prof. Dr. Andrea von Groll

Participating Graduate Programs: Nursing and Health Science.

Main objective: Prospect and develop strategies to prevent and control diseases and illnesses affecting human health and the quality of life in coastal ecosystems.

- 1) AIDS and its comorbidities and other sexually transmitted diseases
- 2) neglected diseases such as tuberculosis and intestinal parasitoses
- 3) issues of local relevance such as mental health, drug addiction and prison health
- 4) assess the impact of pollutants on human health

PREVENTION AND CONTROL OF DISEASES AND ILLNESSES THAT AFFECT HUMAN HEALTH AND QUALITY OF LIFE IN COASTAL ECOSYSTEMS

EXPECTED BENEFITS	2019	2020	2021	2022
Missions Related to the Research Project	2 🗸	2	-	-
Pos Doctorate with experience abroad	-	1	2	-
PDSE - Ph.D. sandwich (12 months)	-	1	-	-
PDSE - Ph.D. sandwich (6 months)	-	2	1	1
Visiting Professor (1 months)	-	1	-	-
Junior Visiting Professor Abroad (6 months)	1 🗸	2	4	1
Senior Visiting Professor Abroad (3 months)	1 🗸	-	-	-

E-MAIL CONTACTS

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	Bio/Geodiversity and Bio/Geoprospection in Coastal and Oceanic Ecosystems					
	Coordinator: Luis Henrique da Sil e-mail: lpoersch@mikrus.c			: Margareth da Silva Copertino arga.copertino@gmail.com		
Specific Projects						
	Safety and Food Quality from Coastal and Oceanic Living Resources Coordinator: Jorge Alberto Vieira Costa e-mail: jorgealbertovc@terra.com.br		Prevention and Control of Diseases that Affect Human Health in Coastal Ecosystems Coordinator: Andrea von Groll e-mail: avongrol@hotmail.com			
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Graduation courses						
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