



UNIVERSIDADE  
FEDERAL  
DE PERNAMBUCO

**PROPG - UFPE**



**Program for Institutional  
Internationalization  
CAPES/ PrInt**

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**LEADING GROUP**

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**Carol Góis Leandro**  
Dean of PROPESQ

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Postgraduate Studies Director

**Pedro Carelli**  
Research Director

**Nona Maia**  
DRI

**Madson Diniz**  
DRI

**Paulo de Tarso**  
Coordination Technician of  
Print

**Anderson Gomes**  
PPG in Physics

**Caroline Mota**  
PPG in Production Engineering

**Gauss Cordeiro**  
PPG in Statistic

**Marcelo Tabarelli**  
PPG in Biology Applied Health

**Mario Kato**  
Civil Engineering

**Paulo Santos**  
PPG in Animal Biology

**Severino Alves Junior**  
PPG in Chemistry

**Tereza Ludermir**  
PPG in Computer Science

**James Woodcock**  
PPG IN Statistic

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# TOPICS AND OBJECTIVES

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# TOPIC 1: BIODIVERSITY AND NATURAL RESOURCES CONSERVATION

- GERMANY
- ARGENTINA
- AUSTRALIA
- AUSTRIA
- BELGIUM
- CANADA
- CHILE
- COLOMBIA
- SPAIN
- UNITED STATES
- FINLAND
- FRANCE
- NETHERLANDS
- ITALY
- MEXICO
- POLAND
- PORTUGAL
- UK
- URUGUAY

**Objective:** Establish at UFPE a core of strategic thinking on sustainable management of tropical ecosystems. Tapioca Project.

- **PPG IN ANIMAL BIOLOGY (6)**
- **PPG IN FUNGAL BIOLOGY (4)**
- **PPG IN PLANT BIOLOGY (6)**
- **PPG IN CIVIL ENGINEERING (5)**
- **PPG IN OCEANOGRAPHY (5)**
- **PPG IN ENERGY AND NUCLEAR TECHNOLOGIES (5)**

- 6 INTERNATIONAL COOPERATION PROJECTS

## TOPIC 2 : STATE AND SOCIETY IN GLOBAL CONTEMPORANEITY: INEQUALITY AND DEVELOPMENT DYNAMICS

- SOUTH AFRICA
- ARGENTINA
- BELGIUM
- SPAIN
- U.S
- FRANCE
- ITALY
- MEXICO
- MOZAMBIQUE
- PORTUGAL
- UK
- SWITZERLAND
- URUGUAY

**Objective:** Develop high quality knowledge on the corruption topic.

- PPG IN POLITICAL SCIENCE (6)
- PPG IN SOCIAL WORK (6)
- PPG IN SOCIOLOGY (6)

- 5 INTERNATIONAL COOPERATION PROJECTS

## TOPIC 3: HEALTH INNOVATION

- CANADA
- COLOMBIA
- FRANCE
- ITALY
- UK

**Objective:** To execute translational research linked to innovation for rare diseases, placing UFPE among the best topic-related universities in the world.

- PPG IN BIOLOGICAL SCIENCES (5)
- PPG IN GENETICS (4)
- PPG IN THERAPEUTIC INNOVATION (5)
- PPG IN TROPICAL MEDICINE (5)

- 4 INTERNATIONAL COOPERATION PROJECTS

## TOPIC 4: BASIC SCIENCES INNOVATION

**Objective:** To improve and consolidate knowledge and research produced by UFPE, promote partnerships in strategic international networks through academic mobility programs.

- GERMANY
- ARGENTINA
- ARMENIA
- AUSTRIA
- CANADA
- CHILE
- CHINA
- COLOMBIA
- SOUTH KOREA
- DENMARK
- SPAIN
- U.S
- FRANCE
- NETHERLANDS
- WILL
- ISRAEL
- ITALY
- MEXICO
- POLAND
- PORTUGAL
- UK
- RUSSIA
- SINGAPORE
- SWEDEN
- SWITZERLAND

- PPG ELECTRICAL ENGINEERING (5)
- PPG IN PHYSICS (7)
- PPG IN MATHEMATICS (5)
- PPG IN CHEMISTRY (6)

- 4 INTERNATIONAL COOPERATION PROJECTS



## TOPIC 5: SYSTEMS MODELING

- GERMANY
- AUSTRALIA
- AFRICA SOUTH
- AUTRIA
- BELGIUM
- CANADA
- CHINA
- SPAIN
- U.S
- FRANCE
- NETHERLANDS
- HONG KONG
- INDIA
- ITALY
- JAPAN
- MEXICO
- POLAND
- PORTUGAL
- UK
- SWEDEN
- TURKEY

**Objective:** Develop new techniques for digital data communication

- **PPG IN COMPUTER SCIENCE (7)**
- **PPG CIVIL ENGINEERING (5)**
- **PPG PRODUCTION ENGINEERING (7)**
- **PPG IN ELECTRICAL ENGINEERING(5)**

- 4 INTERNATIONAL COOPERATION PROJECTS

BENEFIT	WORTH
COOPERATION PROJECTS	R\$ 16,215,566.40
MISSIONS NOT LINKED TO RESEARCH PROJECTS	R\$ 0.00
SCHOLARSHIPS NOT LINKED TO RESEARCH PROJECTS	R\$ 4,345,877.33
ADDITIONAL SHARES	R\$ 0.00
<b>TOTAL AMOUNT</b>	<b>20,561,443.73</b>

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# **REPORT - JANUARY 2020**

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# TOPIC 1: BIODIVERSITY AND NATURAL RESOURCES CONSERVATION

## - 6 INTERNATIONAL COOPERATION PROJECTS

ACTION	COUNTRY	PPG	PROGRESS
Ecological studies and public policies	Germany, United Kingdom, Argentina and Mexico	Plant Biology	100%
Researchers Mobility (Brazilian and French)	Germany	Plant Biology	100%
Execution of public policies	Brazil	Plant Biology	50%
Systematic studies, phylogeography and cytogenetics molecular	Uruguay and Germany	Plant Biology	100%
Use of bioinformatics tools	Canada	Civil Engineering	30%
Increase the visibility of PPGBF's research	Portugal	Biology of Fungi	100%
Extend long-term ecological research duration (network research)	Germany	Plant Biology	50%

- **ANIMAL BIOLOGY, OCEANOGRAPHY, ENERGY AND NUCLEAR TECHNOLOGIES**

## TOPIC 2: STATE AND SOCIETY IN GLOBAL CONTEMPORANEITY: TOPIC 2 : STATE AND SOCIETY IN GLOBAL CONTEMPORANEITY: INEQUALITY AND DEVELOPMENT DYNAMICS

- 5 INTERNATIONAL COOPERATION PROJECTS

ACTION	COUNTRY	PPG	PROGRESS
Intensify discussions on the globalization of agriculture	U.S	Sociology	100%
International research network on P. Bourdieu	France	Sociology	50%
Researchers and internationalization process on pre-colonial topics	Portugal	Sociology	75%
Qualify our team to become a national standard for the studies of southern hemisphere inequalities	Spain, Italy and Argentina	Social service	83%

- **POLITICAL SCIENCE**

## TOPIC 3: HEALTH INNOVATION

- 4 INTERNATIONAL COOPERATION PROJECTS

ACTION	COUNTRY	PPG	PROGRESS
Create a reference center at UFPE on pre-clinical trials of products bioactive	France	Therapeutic Innovation	40%
New technologies for rare diseases	France	Therapeutic Innovation	20%
Biological development of new bioactive molecules	Brazil and France	Tropical Medicine	10%
Proteomic and cytometric cell mapping pre and post-treatment	Brazil	Tropical Medicine	100%
Synthesis and physico-chemical characterization	France	Tropical Medicine	40%
Database for Bioactive Molecules UFPE / NUPIT	France	Therapeutic Innovation	40%
Follow-up, consultancy and transfer (IRE)	Italy	Genetics	50%
Antigenic constructions for genetic immunization	Brazil / Italy	Genetics	20%
Develop bioactive innovators	Brazil	Biological Sciences	80%
Controlled drug delivery system	France	Biological Sciences/UPSud	5%
Miniaturized systems	Brazil	Therapeutic Innovation	25%

## TOPIC 4: BASIC SCIENCES INNOVATION

- 4 INTERNATIONAL COOPERATION PROJECTS

ACTION	COUNTRY	PPG	PROGRESS
Increase Qualis A publishing qualis THE	Spain, France, USA, Colombia and Chile	Maths	20%
Increase Qualis A publishing qualis THE	Germany, USA	Chemistry	100%
Short-term courses promoted by PPG in Chemistry	Spain, France, USA, Colombia and Chile	Chemistry	?
Consolidate groups and research areas	Germany, USA	Chemistry	100%
Researcher mobility	Chile	Maths	50%
Foreign researchers visit	Spain	Maths	?
Mobility abroad	Germany, Italy, Israel and Spain	Physics	80%
Mobility for the optical biosensors area	Brazil / Canada	Electrical Engineering	100%
New telecommunications devices	Brazil / Spain	Electrical Engineering	25%

## TOPIC 5: SYSTEMS MODELING

- 4 INTERNATIONAL COOPERATION PROJECTS

ACTION	COUNTRY	PPG	PROGRESS
Train staff on modeling systems for digital communication	UK	Electrical Engineering	20%
Train staff on modeling signal processing systems	Canada	Electrical Engineering	20%
Strengthen the INCID	Canada, USA and Turkey	Production Engineering	30%
Implement computational models	Canada, Portugal, South Africa, Sweden and Japan	Computer Science	100%
Increase team knowledge	Canada, USA, Turkey and France	Electrical Engineering	20%
Intensify international cooperation	UK	Civil Engineering	25%
Modeling systems and processes for goods and services	China, Canada, France, USA, Australia and Turkey	Production Engineering	25%
Exchange	USA	Civil Engineering	67%
Exchange	England and France	Production Engineering	20%
Exchange	UK and USA	Production Engineering	25%



## REQUIREMENTS - PROGRAM FOR INSTITUTIONAL INTERNATIONALIZATION (CAPES)

- Meet basics demands in first year of the project
- Broadcast CAPES as a resource developer for the program
- Execute strategy requirements
- Execute policy requirements
- Execute counterpart requirements
- Execute PPG requirements
- Implement new courses in the PPG
- RESULTS, DIFFICULTIES AND OTHER ISSUES (training, courses etc)