

# PUCRS | INTERNATIONAL

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**Online Research Opportunities for International Students**

2021

An aerial photograph of a city, likely Porto Alegre, Brazil, is shown with a semi-transparent blue overlay. A white vertical line runs down the right side of the image. The text 'WELCOME TO PUCRS!' is prominently displayed on the left side of the image.

# *WELCOME TO PUCRS!*

Located in the city of Porto Alegre, in Rio Grande do Sul/ Brazil, PUCRS is the #1 private higher education institution in South of Brazil according to the **Times Higher Education** ranking. More than 150,000 students have graduated from our programs in more than 70 years of existence. We offer 55 undergraduate programs, 23 graduate programs (Master's and PhD) and 70 other Certificate and Extension programs.



# WE ARE AS GREAT AS THE FUTURE

Our Main Campus, located in Porto Alegre, capital of the State of Rio Grande do Sul, sits in a total area of 55 hectares where thousands of people come and go to every day. Our Campus is home to our **7 schools**, the **Main Library**, the **Sports Park**, the **Science and Technology Museum**, the **Science and Technology Park** and the **São Lucas Hospital**.







# *ONLINE RESEARCH OPPORTUNITIES FOR INTERNATIONAL STUDENTS*

International students looking for professional experience in their academic areas can now enjoy different opportunities at PUCRS' laboratories, groups and research centers. The **Research Opportunities Program** has been attracting students from all over the world. Now PUCRS is offering **opportunities online** for students interested in joining projects from their home country.



## ELIGIBILITY CRITERIA

- International students, aged 18+, regularly enrolled in partner universities overseas, at the undergraduate or graduate level, who meet the specific requirements of the project chosen.



## DOCUMENTATION

Before submitting the application documents, the university must contact us to check the availability.

- Application form (submitted online);
- Copy of valid passport (scanned);
- Confidentiality and Intellectual Property Agreement.



# ONLINE OPPORTUNITIES

## 2021



Deadline: **June 25, 2021**



The program has a minimum duration of one month and students will be able to arrange the activities to be developed and the routine with their project coordinator. These activities are voluntary and students will receive a certificate of participation at the end of the program.

	Research Group or Laboratory Project	Coordinator	Eligibility Criteria	Activities to be developed (subject to alteration)	Duration
1	<b>Medical Image Computing Laboratory (MEDICOM)</b>  Project: Artificial intelligence methods applied to the analysis of medical imaging	Ana Maria Marques da Silva	Proficiency in English and familiarity with Python and / or MATLAB programmingmen's work in pandemic times	Development of software for medical imaging processing and analysis	Minimum of 6 months, no maximum duration
2	<b>Research Group in Olympic Studies</b>  Project 1: E-Sports in Olympic Games: A Perspective Based on Athletes and Specialists in Olympic Games	Nelson Schneider Todt	Intermediate or Advanced Spanish, French or English Availability in the afternoons	Bibliographic research and review, collaboration in conducting interviews and data management	9 months
3	<b>Research Group in Olympic Studies</b>  Project 2: Social Media and the Creation of the Image of Paralympic Athletes: From Rio 2016 to Tokyo 2020	Nelson Schneider Todt	Intermediate or Advanced Spanish, French or English Availability in the afternoons	Bibliographic research and review, collaboration in conducting interviews and data management	9 months
4	<b>Research Group for Education, Gender and Craftwork</b>  Project: Exploration of women's work in pandemic times	Edla Eggert	Intermediate or Advanced Spanish, French or English Availability inIntermediate-level Portuguese or Spanish – Availability on Thursdays from 7 PM to 8:30 PM the afternoons	Reading and discussion of articles sent through Whatsapp	4 months or na academic semestre

	Research Group or Laboratory Project	Coordinator	Eligibility Criteria	Activities to be developed (subject to alteration)	Duration
5	<b>LTIG - Image Treatment and Geoprocessing Laboratory</b>  Project: Extreme events - floodings	Regis Lahm	English or Spanish; Familiarity with geotechnologies and geoprocessingt Cities	Spatialization of rainfall data and flooding points in Porto Alegre - Technologies	Minimum 1 semester; Maximum 2 semesters
6	<b>d-GOVS - Governance and Digital Society Research Group</b>  Project: Digital Exclusion in Digital Transformation Processes	Edimara Mezzomo Luciano	Intermediate English	Bibliographic review and research; support in the design of research instruments, preliminary data analysis	1 academic semestre (a minimum of 4 months)
7	<b>GEE (Energy Efficiency Group)</b>  Project: Sustainable Planning of Energy Resources	Odilon Pavón Duarte	Proactivity and engagement	Successful applicants will analyze and monitor data; conduct bibliographic review and research; assist in the analysis of technical reports; provide support in the development of training programs.	To be defined
8	<b>Embedded System Group</b>  Project: Internet of Things - Industry 4.0 and Smart Cities	Fabiano Hessel	English of French; C and Java programming languages.	The student will work at the core of IoT technology. The activities involve the study of the IoT state of the art, Edge Computing, Cybersecurity Methods for IoT devices (use of machine learning techniques, blockchain, cryptography)	A minimum of 6 months



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9	<b>Virtual Human Simulation Laboratory</b>  3 projects. Simulation of behaviors / Analysis of movements and facial expressions / Study of human perception regarding the visualization of virtual humans.	Soraia Musse	Intermediate English, familiarity with programming language, especially Unity and Python.	Unity, Python and image analysis libraries.	A minimum of 3 months (not including the month of December)
10	<b>Laboratory for Evaluation and Research in Physical Activity</b>  Project: Biological Aspects of Aging	Rafael Reimann Baptista	English or intermediate Portuguese	Bibliographic review and research, scientific meeting, production of scientific articles.	To be defined
11	<b>Integrative Research Group on Epidemiology Research, Technology and Teaching</b>  Project: Epidemiology	Rita Mattiello	No specific requirements	Literature review, project design and development, data analysis and production of scientific papers	To be defined
12	<b>GERMA – Rural Economy and Environment Group</b>  Project: The Paris Agreement and the Brazilian Agribusiness	Augusto Mussi Alvim	English or Portuguese	Bibliographic research and review, participation in seminars, data management, participation in class and meetings in research groups.	Minimum: 3 weeks; Maximum: 2 semesters

	Research Group or Laboratory Project	Coordinator	Eligibility Criteria	Activities to be developed (subject to alteration)	Duration
13	<p><b>GENIM - Group for Research on Epidemiology, Neurology and Immunology</b></p> <p>Project: Sociodemographic, behavioral, clinical and molecular markers for the identification of elderly individuals with risk of serious Covid-19 infections</p>	Douglas Kazutoshi Sato	<p>Elementary-level Portuguese;</p> <p>Availability of 20 hours per week (face-to-face); Interest in ageing, neurology and immunology.</p>	<p>Monitoring research activities in the Institute of Geriatrics and Gerontology's research laboratory and in Brains' Laboratory of Neuroinflammation and Neuroimmunology: hands-on activities in the laboratory (face-to-face); application of instruments; data collection; scientific discussion; database design; data analysis; attendance to classes, seminars or scientific meetings. Some activities may be developed remotely.</p>	<p>A minimum of a month and maximum of three months</p>

*ANY QUESTIONS?  
CONTACT US*

The **Office of International Cooperation** is available to answer questions from partner universities and their students at: [mobilidade.in@pucrs.br](mailto:mobilidade.in@pucrs.br)



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**JOIN PUCRS AND BE AS GREAT AS THE FUTURE!**