ORION - Program for International Professional Mobility
Call for Applications

The International Professional Mobility Program (ORION) aims to bring international students for a short-term (three to six months) academic and professional experience in Brazil, through internships in companies working with innovation and academic activities at the Federal University of Rio Grande do Sul (UFRGS). Carried within the Scientific and Technological Park of UFRGS (Zenit), the program is already being developed with several companies, faculties and foreign universities intending to:

- Attract international talents to Brazilian companies and research laboratories;
- Expand the network of contacts and strengthen competitiveness of companies;
- Strengthen a global organizational culture of business and the University;
- Contribute to an internationalization of the university.

The program was created for students from both the Bologna’s treaty undergraduate (first three years) and master level (following fourth and fifth years). It intends to bring more technical and professional experience to Brazil, and to enable students to do internships in companies and in state of the art scientific and technological laboratories at the university and, if desired, to develop their final master research thesis. Of course, at this stage there are not yet specific dual diploma agreements established between UFRGS and the list of foreign Universities participating to ORION. In this sense, the revalidation of credits will be made just according the rules established by the universities which are sending their students to Brazil.

Students enrolled at their home universities who take part in the exchange program will be received as visiting students of UFRGS, and are expected and have the right to do two courses, one of Portuguese and one of Entrepreneurship, where they will meet both students from Brazil and other international universities as well. These courses will be done simultaneously to the internships. Students will be assigned both an academic tutor at the university and a technical tutor at the company. If students decide to come only to perform research activities at the University, they will have assistance both from a scientific researcher and from a ORION´s team member.

UFRGS is convinced that living and working as an intern in a challenging and dynamic country as Brazil will be a time lasting experience to all participants.

GENERAL CONDITIONS FOR PARTICIPATION

ORION works trying to match foreign participating universities and companies and UFRGS´s laboratories expectations order to offer to selected very skilled students unique opportunities for academic and professional enhancements in Brazil.

Having this in mind, the first step consists of the manifestation of vacancies at different companies and laboratories, which will be made available to the participating universities, which at their turn will divulgate the opportunities to their students.

In order to guarantee the quality of people involved, students will be pre-selected both by their home University and by UFRGS as well. Good potential candidates will be made available for selection by brazilian companies and laboratories, being set up for interviews and selection processes.
Interested students belonging to the participating universities (listed below) should make their registrations after November 20, in the following link:
https://goo.gl/forms/BNqZyiQ4pQosMPoiB2

This counterpart for students is a minimum value in reais corresponding to 300 euros per month in the companies. The Secretariat of International Relations (RELINTER) of UFRGS will be in charge to provide the required documents necessary for the Type 4 Visa for international students. More information can be reached in the website https://www.ufrgs.br/zenit/orion/, or through the e-mail zenit@ufrgs.br.

**SCHEDULE OF ACTIVITIES**

2018
- February/March - divulgation of available positions to international partners
- April/May – selection and approval of candidates
- June and September - start of activities at companies and/or at UFRGS

**COMPANIES AND OFFERS**

The current companies are open for applications:

- **Deepx** ([www.deepx.it](http://www.deepx.it))
  - Machine learning development for multiple applications.
  - Looking for both Bacharelate and Masters level students to start in June or September, paying from 300 euros up to 500.
    - Android & iOS Developers with knowledge in Kotlin/Swift (2 vacancies)
    - Front-end & Back-end Developers with knowledge in Elm/Elixir (2 vacancies)
    - Machine Learning Engineer with experience using sensors

- **E-Aware** ([www.eaware.com.br](http://www.eaware.com.br))
  - Research and development in IoT for industrial and agricultural applications.
  - Looking for Masters level students to start in June or September, paying 300 euros and transportation vouchers.
    - Data Scientist Trainee for data analysis on industrial sensors used in the field, with experience in programming an knowledge in machine learning and Big Data concepts.

- **Klooks** ([www.klooks.com.br](http://www.klooks.com.br))
  - Big data applied to Market Analysis
  - Looking for Masters level students to start in June, paying 500 euros.
    - Internship in Software Engineering to implement APIs and services for visualization of Klooks deep data and analytics to the users in intuitive ways.
    - Internship in Machine Learning and Data Science to work with senior AI engineerings developing models to predict revenues, automatic information extraction and normalization of documents using AI and ML.

- **Lojas Renner** ([www.lojasrenner.com.br](http://www.lojasrenner.com.br))
  - Brazilian fashion retailer.
  - Looking for Bacharelate level students to start in June and September, paying 300 euros.
    - Data science and machine learning intern to join the Data and Retail Innovation team in 2018, for the development of novel solutions to understand customer behaviors, improve the quality of business data information, work in logistics models to better set
routes, reduce overall lead time and help guessing what's the trendy wear for next season

  - Drones for Remote Sensing.
  - Looking for both Bacharelate and Masters level students to start in June or September, paying 300 euros.
    ◦ Developer with experience with machine learning and image processing

• **Sentimonitor** ([www.sentimonitor.com](http://www.sentimonitor.com))
  - Looking for both Masters level students to start in June, paying 400 euros and sales commissions.
    ◦ Marketing and sales efforts for international markets using inbound and outbound techniques and software.

• **Skydrones** ([www.skydrones.com.br](http://www.skydrones.com.br))
  - Development of agricultural multirotor Drones.
  - Looking for both Bacharelate and Masters level students to start in June, paying between 300 and 400 euros.
    ◦ Obstacle detection and avoidance using radar to control the autopilot of a drone equipped with a PX4 computing platform.
    ◦ Obstacle detection and avoidance using stereoscopic cameras to control a drone equipped with a Qualcomm Snapdragon Flight computing platform;
    ◦ Altitude control using radar and altimeter detecting the relative altitude of drones in relation to crops as well as borders of cultivated areas and regions with lower vegetation density.
    ◦ Calculating the estimated volume of wood in forest areas using radar in different bands, detecting the flight altitude in relation to the trees and to the ground in an embedded computing platform.

**COORDINATION**

- Zenit - Scientific and Technological Park at UFRGS
- UFRGS Institute of Informatics
- UFRGS School of Administration
- UFRGS School of Engineering
- UFRGS Relinter - International Relations Office

**TEAM**

- Prof. Aurora Carneiro Zen (Zenit/UFRGS & EA/UFRGS) – aurora.zen@ufrgs.br
- Prof. Dante Barone (INF/UFRGS) - barone@inf.ufrgs.br
- Prof. Edison Pignaton de Freitas (INF/UFRGS) - edison.pignaton@inf.ufrgs.br
- Prof. Rafael Roesler (Zenit/UFRGS & ICBS/UFRGS) - rafaelroesler@hcpa.edu.br

**More Information:**
zenit@ufrgs.br
(+55 51) 3308 4263

---

**UFRGS**

**Zenit** - Scientific and Technological Park

---

**Coordinación**

- Zenit - Parque Científico y Tecnológico de UFRGS
- Instituto de Informática de UFRGS
- Facultad de Administración de UFRGS
- Facultad de Ingeniería de UFRGS
- Relinter - Oficina de Relaciones Internacionales de UFRGS

**Equipo**

- Prof. Aurora Carneiro Zen (Zenit/UFRGS & EA/UFRGS) – aurora.zen@ufrgs.br
- Prof. Dante Barone (INF/UFRGS) - barone@inf.ufrgs.br
- Prof. Edison Pignaton de Freitas (INF/UFRGS) - edison.pignaton@inf.ufrgs.br
- Prof. Rafael Roesler (Zenit/UFRGS & ICBS/UFRGS) - rafaelroesler@hcpa.edu.br

**Más Información:**
zenit@ufrgs.br
(+55 51) 3308 4263

---

**UFRGS**

**Zenit** - Parque Científico y Tecnológico