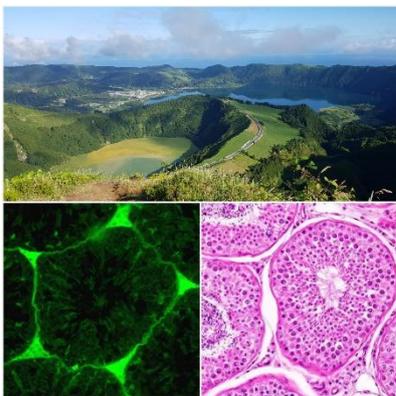


OPEN CALL: Doctoral Fellowship in Biology



Are you interested in biomedical sciences related research?

Would you like to study health issues related to volcanism?

Then you should apply now to our Doctoral Fellowship!

The Research Institute for Volcanology and Risk Assessment (IVAR) at University of the Azores has opened a doctoral fellowship, financed by the Foundation for Science and Technology (FCT). We are looking for strongly motivated graduate students interested in pursuing a PhD degree in Biology, particularly in Environmental Health.

APPLICATION DEADLINE: MAY 31st, 2021.

Project description

The research will be developed within the Framework of the Scientific Unit of **Medical Geology** and will contribute to responding to the general objective of assessing the effects of chronic exposure of human populations to volcanic gases in volcanically active environments. The main objectives of the PhD student are the development and implementation of methodologies and techniques capable of evaluating, using animal models and human population, the negative and/or positive effects of exposure hydrothermal emissions. The student will have the opportunity to work with biomarkers of genotoxicity and cytotoxicity.

This project will uncover the effects of hydrothermal emissions on human health in populations naturally and chronically exposed to the volcanic environments, while developing biomarkers of exposure and effect to establish their health risks and further develop a biomonitoring strategy.

The **specific aims of this project** are:

- i) to evaluate the genotoxic and cytotoxic effects associated with chronic exposure to volcanic gases;
- ii) to develop exposure and effect biomarkers in human populations and in bioindicator species;
- iii) to develop a biomonitoring program for human populations inhabiting hydrothermal areas;
- iv) to model the risk of exposure in these populations.

Supervision:

The PhD project will be supervised by Armindo Rodrigues (IVAR, University of the Azores – <http://www.ivar.azores.gov.pt/unidades-cientificas/Paginas/Sa%C3%BAde-P%C3%BAblica-e-Medicina-de-Cat%C3%A1strofes.aspx>) and integrate collaboration with researchers from the research group Island Environmental Risks & Society- IERS (<https://ce3c.ciencias.ulisboa.pt/team/IERS>) of cE3c (Centre for Ecology, Evolution and Environmental Changes).

The **general requirements for admission** are:

- Hold a Master's degree in the scientific areas of Biological Sciences, in Biomedical sciences or in related areas, being required that the final degree grades (Portuguese classification scale) are equal or upper to 14 values in the graduation and 16 values in the Master degree. If any of the stated degrees was obtained abroad, the formal recognition of the degree in Portugal and the conversion of the obtained grades to the Portuguese scale are required at the time of the application (more information at <https://www.dges.gov.pt/en>).

The following aspects will be valued:

- Scientific publications and research experience;
- Training in epidemiology and histology;
- Good writing and communication skills in English, excellent teamwork skills, and ability to work independently.

For further information and to apply follow the link:

<http://www.era Careers.pt/opportunities/index.aspx?task=global&jobId=132246&lang=pt>