

Research Engineer position at Laboratoire de l'Atmosphère et des Cyclones (LACy) University of La Reunion, Saint-Denis, France

We invite you to apply for a 2-year Research Engineer position on developing visualization tools for the various and numerous datasets generated by the Observatory of Atmospheric Physics of La Réunion (OPAR) and satellite data.

Job description

The Observatory of Atmospheric Physics of La Réunion (OPAR) is a unique observation site through the quality of its infrastructure and instruments, and through its location in an area sparsely documented where physico-chemical processes take place that are essential for the understanding of the climate and improvement in its modelling. OPAR hosts 51 instruments (in situ, passive and active remote sensing) operated routinely and feeding national and international databases linked to national and international networks (WMO/GAW, AERONET, TCCON, WWLLN) and European Research Infrastructures (ACTRIS and ICOS). OPAR is operated by the Observatoire des Sciences de l'Univers de la Réunion (OSU-R).

The objective of this Research Engineer position is to design and develop data visualizations and dashboards for researchers using data sets from various sources. This includes:

- Develop following OSU-R and AERIS development standards and best-in-class solutions
- Build high-performance, scalable and maintainable user interfaces using the latest web data visualization tools
- Play both sides of the house and act as an analyst and as engineer when defining solutions to user problems and prioritize for optimal outcomes
- Need to be able to speak to the researchers in their jargon and translate to Data Services solutions/providers such as AERIS
- Early-stage troubleshooting
- Application access

The position is funded by the European project REALISTIC (centre of Excellence in Aerosol remote sensing technology and Science in The Indian Ocean, GA 101086690) of the Horizon Europe program (<https://realistic.univ-reunion.fr>). It will be supervised by Michaël Sicard (ERA Chair of REALISTIC) and Guillaume Payen (Engineer at OSU-R).

Qualifications

- Qualifications. We Require :
 - Bachelor's in Computer Science or related fields or equivalent experience
 - 2+ years as a developer (Python, PowerBI, etc.)
 - Proficiency in English (oral and written)
 - Autonomous and independent work
 - Able to work in small teams
 - Short and concise reports
- Qualifications. We Desire :
 - Experience working for a university
 - Experience providing scientific data for researchers
 - Basic knowledge in Atmospheric Science
- Additionally, the following are highly desired:
 - Excellent written and oral communication and interpersonal skills
 - Intellectual rigor

- Responsivity to react under strong time constraints

Conditions of employment

Research Engineer candidates will be offered a 2-year period of employment.

Salary and benefits are in accordance with the conditions of the REALISTIC project.

The recruitment of the candidate will strictly follow the European Charter for Researchers - The Code of Conduct for the Recruitment of Researchers (ISBN 92-894-9311-9). In particular the recruitment process and the contractual employment will be carried out taking into account all aspects related to recognition of the profession, non-discrimination, research environment, working conditions, stability and permanence of employment, funding and salaries, gender balance, career development, access to mobility, and research training, intellectual property rights, co-authorship, supervision and teaching.

The University of La Reunion

The University of Reunion Island (Université de la Réunion) is a French university in the Academy of Réunion. It is the first and only European university in the Indian Ocean. Established in 1982, it has grown steadily over the years in terms of student population, geographical sites occupied, courses offered and partnerships forged with local, national and international institutions. The school's ambition is to be the reference university in the Indian Ocean region.

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment.

Laboratoire de l'Atmosphère et des Cyclones (LACy)

The LACy is a joint research unit between CNRS, Meteo-France and University de La Réunion dedicated to the study of physical processes governing the tropical atmosphere. LACy has notably initiated the creation of the Maito atmospheric observatory, part of the Observatory of Atmospheric Physics of La Réunion (OPAR), which hosts various instruments for atmospheric measurements, including lidar systems, cloud radar, spectro-radiometers and in situ gas and aerosol measurements. The lab currently has 22 permanent staff (researchers, engineers, faculty members) and about 10 students.

REALISTIC

The candidate will join the REALISTIC team, composed of 3 researchers, 2 PhD students, 1 post-doctoral fellow and 1 Project Manager.

The overarching goal of REALISTIC is to develop a Centre of Excellence in aerosol remote sensing technology and science in the Indian Ocean, through the creation of a Chair, with La Réunion, a European Outermost region, as a strategic pivot point of the European Research Area. REALISTIC aims at attracting and maintaining a high-profile researcher (ERA Chair holder, Michaël Sicard) to lead a high-profile supporting team with excellent research and technical capabilities in the aerosol remote sensing domain. In particular, specific applications and research endeavours will be conducted in the area of quantifying the impact of wildfire and volcanic emissions on the tropical atmosphere composition and on the Earth-Atmosphere radiative balance. REALISTIC is designed to catalyse and maximise the impact of the ERA Chair in order to raise the research, technical and innovation excellence of the LACy, OPAR, the Observatory of the Universe Sciences of La Réunion (OSU-R), and the University of La Réunion (UR) to a level that makes them unique and essential references in the local R&I ecosystem, at the Indian Ocean-level as well as to the overall international community, and thus filling the R&I gap on atmospheric systems. REALISTIC will contribute to better integrate UR within the European Research Area, and better align with European standards and priorities.

Additional information

For additional information on the position and the application process, please contact Michaël Sicard (michael.sicard@univ-reunion.fr) and Guillaume Payen (guillaume.payen@univ-reunion.fr).

Application procedure

Are you interested in this vacancy? Please apply as soon as possible by sending your application to recrutement-biatss@univ-reunion.fr. The application should contain:

- Letter of motivation
- Detailed CV
- List of grades/transcripts (bachelor, Engineer diploma, master, PhD)
- Contact information of 2 references
- If already available: your PhD thesis.

Please note:

- Please do not contact us for unsolicited services.