



## Project scientist of a research team on regional carbon budgets with satellite data

### Young Scientist / Engineer permanent position

The Laboratoire des Sciences du Climat et de l'Environnement (LSCE) and ATOS are looking for a junior project scientist to be hired as a permanent position by ATOS and based at LSCE, to organize the day-to-day work of a team of young scientists at LSCE working with ATOS engineers on new tools to quantify regional carbon budgets using satellite imagery data.

#### **Background**

LSCE and ATOS will create a combined research team to develop new tools for the monitoring of anthropogenic CO<sub>2</sub> emissions and land ecosystem regional carbon budgets using satellite and ground based observation of both atmospheric composition and the state of vegetation, with artificial intelligence and atmospheric data assimilation methods. The most promising research results will be taken up by ATOS to develop a new line of climate services. We seek to hire a young project scientist who will be able to understand and co-supervise the developments of models by the team members, support code developments, and organize the day to day workplan and interactions in the team in close coordination with LSCE and ATOS staff.

#### **Overall aim**

The project scientist will work closely with two PhD students and three young researchers / engineers hired in the project to assist and help to optimize the development of their codes, and will liaise with LSCE researchers ATOS engineers to develop prototypes of climate services aiming at providing science-based tools to monitor the carbon balance of different regions.

#### **Requirements**

- Experience of research projects
- Programming skills, preferably in Python, Fortran
- Understanding of statistics, remote sensing, and artificial intelligence

#### **Selection Criteria:**

- Experience of project organization and supervision of young researchers & students
- Autonomy, ability to work in a team and time management skills.
- Experienced in multidisciplinary team-based activities with the ability to effectively communicate

with colleagues and with staff from the partners of a project.

### **What ATOS and the LSCE can offer you:**

#### **LSCE <https://www.lsce.ipsl.fr>**

Is a world-class research laboratory established and a collaboration between CEA, CNRS and the University of Versailles Saint-Quentin (UVSQ). It is part of the Institute Pierre Simon Laplace (IPSL). LSCE hosts approximately 300 researchers, engineers and administrative staff including many PhD and master's students. This project will provide the employee with the opportunity to work directly on advanced methods with researchers from the LSCE and other institutions. The purpose of this joint position between LSCE and ATOS is to develop R&D that becomes sustainable and could lead to a permanent position opening at ATOS during or after the position duration. Location: about 20 km from the heart of Paris, in the Orme des Merisiers green area.

#### **ATOS [www.atos.net](http://www.atos.net)**

Is a global leader in digital transformation with 105,000 employees and annual revenue of over € 11 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. The purpose of Atos is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

**Contract duration:** Up to 24 months, If the research finds sustainable development applications, a permanent position will be considered by ATOS.

**Starting date:** The position is available from April 26 2021 and will remain open until filled. The expected start of the position is Sep 2021.

**Salary:** Competitive salary, full social and health benefits, commensurate with work experience.

**How to apply:** Applicants should submit a complete application package by email to the contacts below. The application package should include (1) a curriculum vitae including e.g. recent publications / projects, (2) statement of motivation (3) answers to the selection criteria above (4) names, addresses, phone numbers, and email addresses of at least two references.

#### **Contacts**

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