Postdoctoral Researcher in Data Science for Solar Energy in the framework of the SciDoSol Chair
Fixed-term contract (CDD) for 36 months, available immediately

Institution: **MINES Paris (Ecole Nationale Supérieure des Mines de Paris)**

Assignment: **Centre Observation, Impacts, Energy (O.I.E.)**
Campus Pierre Laffitte – Sophia Antipolis
CS 10207 - F-06904 SOPHIA ANTIPOLIS CEDEX, France
Site Web: http://www.oie.minesparis.psl.eu

In the framework of the SciDoSol Chair (www.scidosol.fr), MINES Paris - PSL University is opening a position for a postdoctoral researcher in data science and solar resource utilization. SciDoSol (Data Science for Solar Energy) is a sponsorship chair aimed at exploring the contribution of data science to the optimal use of solar energy to contribute to the energy transition. The chair, supported by the MINES Paris Foundation, is funded by RTE, Somfy, TotalEnergies, TSE, and Solaïs and is part of the research center Observation, Impacts, Energy (O.I.E).

1. JOB PROFILE DESCRIPTION

The sought-after candidate is a postdoctoral researcher who has demonstrated skills and experience in Data Science applied to the fields of solar radiation, atmosphere, meteorology, or climatology. The candidate will work in collaboration with all members of the O.I.E team, within a collaborative and multidisciplinary framework. He or she will participate in research, teaching, dissemination and coordination activities of SciDoSol. Specifically, the candidate will serve as the thesis supervisor for the five theses funded within the chair, including 3 ongoing and 2 upcoming ones.

Candidate profile specifics

This position is open to a researcher with a degree from a university or a Grande Ecole and a Ph.D. with significant and solid scientific and technical experience in the field of Data Science applied to solar resource assessment, as well as atmospheric and climatological sciences. Experience in modeling the spatiotemporal variability of the atmosphere (clouds, aerosols, etc.) for the purpose of describing or predicting solar radiation is desirable. Prior skills in Python programming under Linux are also a significant asset for this position.

The candidate should have good organizational skills, demonstrate autonomy, and show a strong interest in planning and conducting scientific work. Additionally, the candidate should be inclined towards supervising doctoral candidates, Master's level interns, and students from the civil engineering program at MINES Paris – PSL during pedagogical projects.

Proficiency in both spoken and written English is imperative.

1. APPLICATION FILE

The application file should include the following elements:
- A detailed cover letter.
- A comprehensive curriculum vitae (CV).
- An annotated list of works and publications.

The application should be sent to the attention of the SciDoSol chairholders, Mr. Philippe BLANC and Mr. Yves-Marie SAINT-DRENAN, via email:

philippe.blanc@minesparis.psl.eu
yves-marie.saint-drenan@minesparis.psl.eu

4. THE SCIDOSOL CHAIR, CENTER FOR OBSERVATION, IMPACTS, ENERGY (O.I.E.), MINES PARIS - PSL

In alignment with its educational activities, MINES Paris - PSL is engaged in a broad spectrum of research spanning various scientific disciplines. The eighteen research centers are organized into five departments: Earth and Environmental Sciences, Energetics and Processes, Mechanics and Materials, Mathematics and Systems, and finally Economics, Management, and Society.

The research at MINES Paris - PSL aims for both academic excellence and socio-economic impact. This research-oriented model is developed in close interaction with the socio-economic world, including private or public sector companies, as well as institutions and public administrations. MINES Paris is the leading Grande Ecole in France in terms of volume of partnership research contracts with industries, supported by ARMINES, the MINES Paris Foundation, or MINES Paris itself. This unique positioning has allowed MINES Paris to expand its teams (through the recruitment of lecturers/researchers on indefinite-term contracts funded by its own resources via the contractual research association ARMINES) and enables it to maintain long-term experimental and digital platforms that are both unique and recognized for their quality by its partners.

The SciDoSol Chair is led by researchers from the Center for Observation, Impacts, Energy (O.I.E.), located on the Pierre Laffitte campus of MINES Paris – PSL, in Sophia Antipolis. The center's personnel consists of 8 permanent lecturers/researchers, 8 postdoctoral researchers, 8 PhD students, and an administrative assistant. The center's activities intersect energy, the environment, and Earth observation. It studies and models renewable energy resources and the environmental impacts associated with their utilization, based on fundamental and applied scientific disciplines (mathematics, metrology, physics, environment, etc.) as well as information and communication technologies. Databases and web services are crucial channels for disseminating the team's knowledge. The work of the O.I.E. Center aligns with the strategic axis 3 of the Energetics and Processes Department (DEP) of MINES Paris on the integration of renewable energies.