



ENVIRONNEMENT ET CONTEXTE DE TRAVAIL

MINES Paris - PSL forme depuis sa création en 1783 des ingénieurs de très haut niveau capables de résoudre des problèmes complexes dans des champs très variés.

Première école d'ingénieurs en France par son volume de recherche contractuelle, MINES Paris - PSL dispense une importante activité de recherche orientée vers l'industrie. Ses domaines de recherche s'étendent de l'énergétique aux matériaux, en passant par les mathématiques appliquées, les géosciences et les sciences économiques et sociales. L'école d'ingénieurs développe également la création de chaires d'enseignement et de recherche sur des thèmes émergents.

Notre établissement fait partie de l'Université PSL. Située au cœur de Paris, celle-ci fait dialoguer tous les domaines du savoir, de l'innovation et de la création. Classée parmi les 50 premières universités mondiales, elle forme au plus près de la recherche des chercheurs, artistes, ingénieurs, entrepreneurs ou dirigeants conscients de leur responsabilité sociale, individuelle et collective.

STRUCTURE D'ACCUEIL

Mines Paris est une des plus prestigieuses écoles d'ingénieurs en France. Mines Paris est un établissement public qui forme des ingénieurs généralistes via une expérience pédagogique innovante et pluridisciplinaire (sciences de l'ingénieur et sciences humaines et sociales). Son appartenance à l'Université PSL, qui se positionne dans le top 50 des classements internationaux, constitue une véritable opportunité d'enrichissement des parcours.

MISSIONS

ACTIVITÉS PRINCIPALES

Your environment :

As part of the scientific program of The Transition Institute 1.5 (TTI.5), which focuses on the conditions for the emergence of a transition to a low-carbon planet, taking into account technical, social, economic, political and geopolitical issues, Mines Paris - PSL has an opening for a Data Scientist.

Insofar as these issues may represent obstacles to the transition, it is essential to understand their fundamentals and decipher the mechanisms that drive them. The TTI.5 scientific program has been designed to harmonize, enhance and extend the various research projects already on offer at Mines Paris - PSL. It is also intended to provide new impetus in areas that have been little addressed until now, but which are nonetheless essential to steering the transition, or to filling gaps such as that of a complete vision of the distribution of resources worldwide.

Your challenges and responsibilities :

In order to tackle the various transition strategies, it is essential to have a picture of the production of the various raw materials needed for today's and tomorrow's world. At the same time, the exploitation and circulation of different resources can be strongly impacted by geopolitical conditions and times of tension and conflict.

The aim of this project, with its high methodological stakes, is to develop and couple:

- global resource mapping for two critical "identifiable" resources (lithium and cobalt)
- a mapping of armed tensions (conflicts, installation of military bases, etc.).

To achieve this, we will need to develop a tool for extracting data from a very large mass of information, to be identified, in a changing context that will need to be taken into account for the tool's sustainability.

The development prospects for this work could include :

- a double cartography animated over time ;
- the enrichment of military base and tension indicators, with an equal focus on cases of local armed non-tension around the resource
- a scalable database that can be continuously updated
- a tool that can be replicated for other resources in a rapidly changing world

PROFIL DU CANDIDAT

SAVOIRS ET COMPÉTENCES ATTENDUS

Let's talk about you !...

The position is aimed at an engineer / master data scientist with a degree from a university or Grande Ecole. Additional skills in GIS would be a plus. He/she may receive in-house training on mining resource issues.

The candidate will be strongly encouraged to participate in TTI.5 activities, and may also take part in those of the referral centers. He/she must have demonstrated good teamwork skills.

Fluency in spoken and written English is imperative.

The main skills required for this post are :

Knowledge and skills :

- Mastery of algorithms and programming languages (ability to write efficient, scalable code)
- Mastery of data management language and databases (ability to find, collect and analyze large volumes of data)
- Mastery of data visualization tools

Soft skills :

- Self-motivated
- Spirit of initiative
- Sense of teamwork
- creativity
- Flexibility
- Communication and teaching skills
- Analytical skills
- Thoroughness

...And about us ! Working at Mines Paris also means :

- Joining a prestigious institution with a rich history
- Playing a part in the digital transition and the transition to carbon neutrality to tackle the climate emergency
- Belonging to PSL University, ranked 41st in the Academic Ranking of World Universities
- Join a dynamic, multidisciplinary team!
- A pleasant living environment in a pine forest, at the heart of the 1st technology cluster on the Côte d'Azur and 1st technology park in Europe!

NON DISCRIMINATION, OUVERTURE ET TRANSPARENCE

Notre établissement, comme l'ensemble de l'Université PSL, s'engage à soutenir et promouvoir l'égalité, la diversité et l'inclusion au sein de ses communautés. Nous encourageons les candidatures issues de profils variés, que nous veillerons à sélectionner via un processus de recrutement ouvert et transparent.

CONTACT

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AUTRES INFORMATIONS

Rémunération : **De 33000.0 à 38000.0 € (Euros) par an**

Type de contrat / de poste : **CDD**

Durée du contrat : **18 mois**

Référence

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