

JOB DESCRIPTION

Global R&D - Engineers & Technicians



Position Title / Intitulé de la fonction
Job Level
Contract Type
Profile
Function
Hiring Manager / Nom du demandeur
Report to
HR Contact

Researcher in Machine Learning/Deep Learning applied to Predictive Maintenance
Exempt
Permanent Contract
Experienced Professional
Research & Development
Tatiana Manso Nuño
Ruben Perez Chust
Alice Marguerite

Work Location - Business Unit
Work Location - Lab/Portfolio/Transversal team
Work Location - Service
Work Location - Country
Work Location - Site

Global R&D
Asturias GRID
Digital Transformation Solutions
Spain
Aviles/Madrid

Travel Required

Regular (30% approx)

JOB DETAILS	
Group Presentation	ArcelorMittal is the world's largest steel producer. We use the most innovative technology to create the steels tomorrow's world will be made of. Every day over 190,000 of our talented people, located in over 60 countries, push the boundaries of digitalization and use advanced technology to create a world that is stronger, faster and smarter. To help make this possible, they know they can depend on the support and training that a company of our scope and scale can provide.
Lab / Portfolio / Transversal team Presentation	Our team is known as Digital Transformation Solutions (DTS) and is part of Global R&D Spain center, located in Avilés. We are the an R&D team devoted to provide digital solutions worldwide in ArcelorMittal Group. DTS is a multidisciplinary team covering a wide variety of scientific and business areas with our high qualified researchers (engineers, mathematicians, physicist...), all of them with deep expertise in combining Science and Business Know how. Their enthusiasm and commitment create an incredible working atmosphere for those that want to enjoy the experience of researching and applying breakthrough ideas in a real industrial world. The position can be based in our office in Madrid.
Who we are looking for / General objective / Mission générale	We are looking for someone with knowledge of Machine Learning/Deep Learning for predictive maintenance. Currently the main research lines go through developing intelligent solutions based on analysis of vibrations, currents, voltages or temperatures. Thus, the development of algorithms using Machine Learning techniques is mandatory. Also, basic knowledge of electrical machines, motors, pumps, drives, etc...and/or demonstrable experience in maintenance works in industrial facilities would be desirable. Finally, knowledge and experience in signal processing also would be desirable.
Call for action	Join us and you'll see your work help create renewable energy, impact major industries and boost economies. At ArcelorMittal we'll help you make your world.

WHAT WE WILL NEED				
Education / Qualification / Formation de base	Master			
Professional background / Type d'expérience professionnelle	Degree in quantitative field: Mathematics, Physics, Engineering, Computer Science, Operations Research or other related field.			
Minimum Requirements / Aptitudes	<ul style="list-style-type: none"> - 2+ years experience as data scientist - Experience with Condition Monitoring/Predictive Maintenance projects would be desirable. - Experience and solid background in applying Machine Learning/Deep Learning in anomaly detection, time series forecasting, remaining useful life and/or signal processing problems. - Knowledge of probabilistic models, stochastic processes and generative models desirable. - Proficiency in at least one object oriented programming language (desirable Python). - Experience with data wrangling. - Desirable experience with Git, Docker, SQL and noSQL databases, data visualization, Spark and/or cloud computing platforms (Azure, Databricks, AWS, Google Cloud). - Initiative, adaptability, analytical competencies, results oriented, team work and project management skills. 			
Language / Langues étrangères	English	Advanced	Spanish	Advanced

WHAT WE WILL OFFER	
Job potential evolution / Evolution possible de l'emploi	Integration in a highly qualified group of researches with the possibility of pursuing a career in the scientific area in the R&D organization of the world's largest steel producer.
Benefits	An attractif remuneration package and career perspectives within ArcelorMittal Group