



EDF Trading Job Description

Job title: Atmospheric Data Scientist
Reports to: Head of Meteorology
Location: London
Department: Meteorology
Position purpose: To provide in-depth analysis of weather and climate data with the goal of identifying relationships, patterns and signals in this data which could lead to the development of new forecasting tools and increasing weather forecasting skill for Meteorologists and Energy Traders.
Main responsibilities: <ul style="list-style-type: none">• Conducting data analysis of large datasets, extensive coding to perform complex processing and manipulation of gridded atmospheric data• Coding models and tools to improve internal weather forecast views• Coding new GUI tools for operational use by meteorologists and analysts.• Close collaboration with IT to ensure smooth (weather) data flows from and to internal Databases• Conducting time-sensitive ad-hoc analyses on specific weather events• Visualisation of quantitative results and analyses
Experience required <ul style="list-style-type: none">• At least 3 years' programming experience with Python (including use of packages such as numpy, pandas, cartopy, matplotlib, xarray, netcdf4 etc.) is essential.• Experience with Atmospheric and Climate model data in combination with quantitative data analytics or statistics
Technical requirements <ul style="list-style-type: none">• Proficient with Python coding as well as SQL. Exposure to VBA and MATLAB an advantage.• Experience working with GRIB and NetCDF files and in handling large (multidimensional) environmental data sets (e.g. gridded reanalysis and forecast data) as well as time series• Experience with weather specific command line tools such as CDO, NCO, NCL or wgrib2• Proven ability to derive statistics and information from large complex data sets.• Experience with web scraping tools (e.g. Selenium, beautifulsoup, etc.) and tool automatization• An understanding of machine learning techniques would be beneficial as would knowledge of database structures and/or cloud services (e.g. Azure).
Person specification <ul style="list-style-type: none">• A passion for data analysis in the weather and climate domain• Educated to degree level in meteorology, or a technical / mathematical degree• Excellent communication skills; fluency in written and spoken English• Strong interpersonal skills with a solid teamwork ethic• Strong attention to detail with an ability to multitask and prioritize in a high-paced environment• Ability to explain scientific results to non-experts
Hours of work: 40 hrs per week