

## DATA SCIENTIST - AMADIX

### About the company

[Amadix](#) is a biotech company, developing innovative tests for early cancer detection by last-generation liquid biopsy, which impact patient survival and quality of life. We are a growing company that offers significant career opportunities if you are curious, driven, patient-oriented and aspire to help us build a great company.

Amadix is an Equal Opportunity Employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital, disability or veteran status or medical condition.

### Job Purpose:

We are conducting an innovative health research using Big Data tools and Artificial Intelligence to incorporate new risk cancer factors into our algorithms. For that, we are seeking a **Data Scientist** at our Madrid offices (Spain).

In this role, the candidate will be responsible for extracting the data, anonymization, structuration and the analysis. We are looking for highly self-motivated people, with Ph.D. in Bioinformatics, Computational Biology or equivalent preparation, deep understanding of modern statistical and machine learning tools for analysis of genomics datasets and relevant experience in similar positions.

This is an exciting opportunity for an experienced researcher to engage with the biotechnology industry and drive the development of innovative diagnostic solutions in cancer.

### Key Tasks & Responsibilities:

The **Data Scientist** role will contribute to the development of a strategic project for the company. The position will be tasked -among others - with:

- Collaborating in the design of experiment of the clinical study, protocol writing, sample size and power calculation, providing SAP (Statistical Analysis Plan).
- Data anonymization to guarantee the patient's rights under data protection law.
- Data structuration and loading.
- Define the best AI algorithm strategy to obtain the required predictive model for the early detection of CRC.
- Data analysis to establish correlation between the different risk factors and the appearance of the illness, including: statistical verification of the sample data, correction of possible sample bias, principal component analysis (PCA) to evaluate the different variables, graph analysis, itinerary analysis, statistical analysis of the variables.
- Clinical analysis of the variables (in cooperation with the scientific team).
- Results and conclusions.

### Education:

- Ph.D. in Bioinformatics, Computational Biology, Statistics, Biological Sciences, Cancer Biology, Genetics, Genomics, Computer Science, Physics, or equivalent preparation and experience.
- Requires a bachelor's degree in any life science or informatic specialize in statistic /big data degree.
- Fluent in English (written and spoken)

### Experience:

- Multiple years of in-depth knowledge and working experience in experimental data analysis, including statistical methods, strong knowledge of statistics and computational biology algorithms, machine learning techniques like deep learning, boosted trees, support vector machines, experience in building machine learning based applications, in setting up machine learning workflows from pre-processing up to the final model, knowledge of at least one modern programming language as Python, C++, Java.

### Required Knowledge, Skills and Abilities:

- Self-confident and responsible team player with motivating attitude
- Profound communication and strong interpersonal skills to different target audience.
- Strong interest in building research solutions that result in applications
- Ability and willingness to define a research agenda to solve real-world problems occurring at the company.
- Motivated technically guide who like to work in an interdisciplinary as well as international team.
- Expertise in bioinformatics: Ph.D. in Bioinformatics, Computational Biology, Statistics, Biological Sciences, Cancer Biology, Genetics, Genomics, Computer Science, Physics, or equivalent preparation and experience.
- Experience working with biological laboratory data technologies (RT-qPCR, ELISA/CLIA, ...). Specifically experience with micro-RNAs data will be valuable.
- Multiple years of in-depth knowledge and working experience in experimental data analysis, including statistical methods, strong knowledge of statistics and computational biology algorithms, machine learning techniques like deep learning, boosted trees, support vector machines, experience in building machine learning based applications, in setting up machine learning workflows from pre-processing up to the final model, knowledge of at least one modern programming language as Python, R, C++, Java.
- Experience in data analysis of large healthcare databases and observational studies
- Fluency in English in verbal and written form (bilingual).
- Expertise in data analysis/interpretation is essential with particular emphasis on diagnostic/predictive model building.
- Excellent collaboration skills and demonstrated ability to work collaboratively
- Excellent attention and accuracy with details and strong commitment to quality

### Additional information:

Amadix offers a dynamic and innovative work environment along with benefits that include variable compensation

- Length of contract: Open ended
- Type of contract: Full time
- Remuneration: competitive
- Location: Madrid

**Contact:** [Ireinoso@amadix.com](mailto:Ireinoso@amadix.com)