

HEALTH DATA SCIENTIST – AMADIX

AMADIX is a biotech company, developing and commercializing innovative diagnostic tests for cancer, which impact patient survival and quality of life. 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 Health Data Scientist at our Madrid or Valladolid 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.

Responsibilities:

The **Health 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 the clinical study.
- Data extraction from clinical records.
- Data anonymization to guarantee the patient's rights under data protection law.
- Data structuration and loading.
- Define the best AI algorithm strategy in order 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.
- Ability to work well in a team in a start-up atmosphere
- Ability to effectively manage multiple tasks and projects
- Strong skills in organizing, planning, problem solving.
- Ability to interact effectively with all levels of the organization, both internally and externally.
- Excellent attention and accuracy with details and strong commitment to quality

What we offer:

- A full time one-year employment contract, for experienced researchers (R2) from outside of Spain.
- Competitive salary and relocation cost
- Tailored training program

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 status, veteran status, or disability status

At the time of recruitment, the Health Data Scientist must have resided or carried out his/her main activity (work, studies, etc.) in Spain for no more than 12 months in the 3 years immediately before the reference date. Compulsory national service and/or short stays such as holidays are not considered. For more information on the INNOSUP-02-2019-2020 call details, please visit the European Commission website.

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