

Data Engineer - FAIRification Officer

Function description

As a leading scientific and policy support institution, Sciensano ensures that you can develop professionally as part of your passion for public health and scientific data management.

As Fairification Officer * you join the service Data Management and Methodology of the newly formed Data Governance Scientific Directorate. The Directorate aims to increase levels of maturity in data management and methodology across the organisation and in partnership with regional, national and European bodies. It champions the reusability, valorisation and innovation with data, data ecosystems and state of the art techniques while handling data in a secure, compliant, ethical and transparent manner.

* FAIR data – findable, accessible, interoperable, reusable data

More specifically, you work on:

- Developing the meta data of the data sets that are in high demand externally or that are considered interesting internally.
- Collaborating with data stewards, data managers and researchers to enrich metadata by using data dictionaries, business glossaries, data profiles, synthetic data. Provide insight into the meta data (e.g. through innovative solutions with knowledge graphs, gen-AI).
- Collaborating with data owners, stewards, managers, researchers and ICT to help design data FAIRification pipelines and processes, namely to apply international standards to common nomenclatures, reference data, data models and data exchange formats (such as DCAT, SKOS, OWL, OMOP, SNOMED CT, ICD-10, FHIR).
- Support the innovation manager in the definition of requirements and the implementation of a data portal and metadata management tooling.
- Coordinating with the Belgian Health Data Agency (HDA) on meta data descriptions and meta data catalogue. Supporting the sharing of data for secondary use.
- Staying abreast of the latest technological and legislative advancements when it comes to FAIR, including at national, European and international levels.
- Support with writing project proposals related to Open Data and FAIR.

Profile

- A Masters Degree and demonstrable experience in the field of either data engineering, IT, data science or data management.
- 2+ years of experience in data architecture and modelling, database systems, use of data catalogues, metadata, FAIR principles and data, reference data and common data models, open API standards, linked data principles such as ontologies, controlled vocabularies and URI's and knowledge of standard data models and data exchange formats (such as DCAT-AP, SKOS, OWL, OMOP, SNOMED CT, ICD-10, FHIR);
- Knowledge of tools for data mining and processing (e.g. Python/R, SQL, SPARQL, Java), cloud and version control (e.g. git);
- Knowledge of GDPR, data privacy and security and data ethics;
- Knowledge of scientific, human health, animal health or environmental data is a plus.
- Language: Good knowledge of English. Good knowledge of French and Dutch is a plus.
- Generic competencies: problem-solving; analytical skills; good interpersonal and communication skills; teamwork; organisation; autonomy; client- and result-oriented approach;

To apply and check further conditions see: [FR](#) / [NL](#)