



EUROPEAN HEALTH DATA & EVIDENCE NETWORK

EHDEN Foundation

JOB DESCRIPTION AND SELECTION CRITERIA

Job title	Clinical terminology scientist
Location	Online work from Europe
Annual salary	€45,000 to €75,000 per annum, depending on experience and qualifications
Hours	Full time or Part-time
Contract type	Fixed-term for 1 year
Reporting to	EHDEN Foundation Board
Vacancy reference	26/001

Research topic	Clinical terminology, vocabularies
EHDEN Foundation web site	See website www.ehden.eu
Technical skills	Medical, pharmaceutical, or health sciences Healthcare data standards (HL7 FHIR, OMOP CDM) SQL programming Clinical terminologies (e.g. SNOMED CT, ICD-10) Relational database expertise

Send your CV to enquiries@ehden.eu

OVERVIEW OF THE ROLE

The EHDEN Foundation has been set up as a non-for-profit entity, originated from the European Health Data and Evidence Network (EHDEN) project, designed to facilitate the generation of reliable and reproducible Real-World Evidence (RWE) across the EHDEN Data Partners Network by leveraging the OMOP Common Data Model and related open source analytical tools and packages. The EHDEN Foundation also participates in projects funded by the European Commission.

Further, EHDEN Foundation partners with our international community in the Observational Health Data Science and Informatics (www.ohdsi.org) to maintain and improve data standards and vocabularies.

As a **Clinical terminology scientist**, you will work with our partners to:

- a) Liaise and interact with partners, sponsors, and collaborators to support the maintenance and improvement of vocabularies and ongoing RWE studies and related activities
- b) Maintain and enhance OHDSI vocabularies, and improve their testing and documentation
- c) Improve and increase the maintenance of European clinical/pharmaceutical vocabularies and terminologies, and their interaction with OHDSI vocabularies
- d) Contribute to the development, maintenance, improvement, and validation of computable phenotypes for the identification of specific cohorts executable across the EHDEN network

Primary responsibilities/duties

1. **Conduct R&D to evaluate new terminologies and approaches to their harmonization** (building crosswalks and/or hierarchies, assigning concept attributes)
2. **Define problem scope and design work plans for vocabulary projects**
3. **Explore, write, and optimize SQL for vocabulary import and transformation** into OHDSI/OMOP format
4. **Maintain, enhance, and run vocabularies ETL-process** as source systems evolve
5. **Perform extensive testing to ensure mapping accuracy and data quality**
6. **Maintain documentation** describing the processes of conversion and implementation of terminologies, their structure, external and internal relationships, emerging problems, and their solutions
7. **Run user testing sessions and collect feedback** to guide improvements
8. **Communicate with end users and developers** to align on requirements and resolve issues
9. **Support EHDEN-Foundation studies** from a terminology/phenotyping context

Additional duties

10. Be **proactive in organising and prioritising workload**, managing own time effectively, highlighting problems as they arise and proposing possible solutions within available resources
11. **Maintain effective communication** with members of the EHDEN Foundation, research collaborators, Data Partners, and staff working in other collaborating centres as required

12. **To give presentations to multidisciplinary groups and attend local, national and international conferences** for the purpose of client engagement and disseminating research results
13. **Manage own workload and work flexibly with OHDSI and the EHDEN Foundation board and staff** to make the best use of time

SELECTION CRITERIA

Essential

- University graduate in medical, pharmaceutical, clinical, biomedical, or health sciences
- Demonstrable understanding of healthcare data standards (HL7 FHIR, OMOP CDM)
 1. Experience with terminology authoring, mapping, or maintenance tools
 2. Familiarity with ontology/vocabulary management platforms Proficient in SQL for querying and analyzing large datasets
 3. Familiarity with clinical terminologies (SNOMED CT, ICD-10, MedDRA, RxNorm, LOINC)
 4. Experience working with relational databases (e.g., PostgreSQL, SQL Server, Oracle)
 5. Comfortable navigating and exploring complex data structures and workflows independently
 6. Ability to create reproducible analyses/pipelines
 7. Demonstrated ability to quickly learn new domains, tools, and methodologies
 8. Ability to work independently with minimal supervision on ambiguous, loosely-defined tasks
 9. Comfortable with asynchronous communication (Slack, email, documentation) and working in distributed multidisciplinary teams across multiple time zones
 10. Strong analytical and structured problem-solving skills with the ability to deep-dive into complex topics
 11. Knowledge of and ability to follow open science principles
 12. Be able to speak, communicate, and write fluent English, particularly in your scientific area of expertise

Desirable / Additional

13. Knowledge of and/or experience with European real world / routinely collected health data
 14. Knowledge of QA/QC frameworks and different types of testing
 15. Knowledge of Github and related applications
- Be **able to manage research and administrative activities** related to the planning and execution of your main activities and duties
 - You will have **experience working collaboratively with industry, regulators, and academic partners**. Ideally, you will have experience of such work across multiple countries and regions.