



EUROPEAN HEALTH DATA & EVIDENCE NETWORK

EHDEN
Foundation

Job description and selection criteria

Job title	Health Data Scientist
Location	Online work within 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 2 years
Reporting to	EHDEN Foundation Board
Vacancy reference	25/002

Research topic	Health Data Sciences
EHDEN Foundation web site	See website www.ehden.eu
Technical skills	R programming Health Data Sciences

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.

As a **Health Data Scientist**, you will work with sponsors and collaborators to:

- a) Plan, implement, and execute analyses of the feasibility of conducting specific studies in the EHDEN network of Data Partners
- b) Write analytical scripts based on pre-existing analytical packages to conduct RWE studies using real world data from electronic health records, health claims, and registries
- b) Work in collaboration with the EHDEN Foundation Board and our staff to plan and execute analyses using standardised procedures and pipelines executed across the EHDEN network of Data Partners
- d) Contribute to the development, maintenance, improvement, and testing of tools necessary for the fulfilment of the above tasks

Primary responsibilities/duties

1. You will be responsible to **lead on the programming of analytical scripts necessary to conduct RWE analyses** and studies across the EHDEN network
2. You will **work with our research team and with potential sponsors and collaborators to conduct landscaping (data discovery) and feasibility analyses of RWE studies** in the EHDEN network
3. You will **lead on the development, documentation, maintenance and testing of analytical pipelines** to facilitate the planning and execution of federated studies in the EHDEN network
4. You will **work and interact with the EHDEN Data Partners to execute feasibility analyses and RWE studies in their data**, and to support them when they encounter technical challenges during the execution of our provided scripts
5. You will **use analytical tools (typically R packages) to execute pre-specified analyses** across the EHDEN network under the supervision of the EHDEN Foundation board or of other colleagues in the team
6. You will **lead the design of interactive dashboards (e.g. Shiny apps) summarising the findings of RWE studies**

Additional duties

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

9. To give **presentations to multidisciplinary groups and attend local, national and international conferences** for the purpose of client engagement and disseminating research results
10. **Managing own workload** to ensure optimal support to studies and working flexibly in the team to make the best use of time

Necessary knowledge and skills

1. You will require **expertise in quantitative sciences, including mathematics, statistics, engineering, and similar fields**. Typically this will be demonstrated by having a degree in a related field
2. You will have **experience in planning and executing analyses using existing R packages/pipelines**. Ideally, you will have led or participated in federated studies using the OMOP common data model
3. You will be **able to develop and/or maintain R packages and related tools (e.g. Shiny apps)**
4. You will **be able to speak, communicate, and write fluent English, particularly in your scientific area of expertise**. Ideally, you will speak at least one additional official language of the European Union.
5. 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

Selection criteria

Essential

- **A relevant post-graduate degree in Mathematics, Statistics, Engineering, or a related field.**
- **Experience working with electronic medical records/routinely collected/real world data**
- **Experience in conducting complex statistical analyses, preferably in R**
- **Experience in the design, development, and maintenance of R packages and related tools**
- **Ability to demonstrate practical use of information technology systems**
- **Ability to work within multi-disciplinary teams and independently**
- **Self-motivated with proven organizational and time management skills**
- **Ability to communicate well (both verbally and in writing) in English** with people from diverse disciplines
- **Demonstrate an ability to follow departmental guidance in handling sensitive and personal information,** including complying with current data protection legislation

Desirable

- **Experience in Health Data Sciences or a similar field**
- **Experience in the analysis of RWE studies using OMOP-mapped data**