

Interoperability Expert

WHO WE ARE

EarlyTracks is a leading provider of innovative solutions that empower care institutions in efficiently managing and leveraging high-quality medical records. With our unwavering focus on standardized and 'fit-for-use' medical records, we offer a unique value proposition to our esteemed client base of 20+ hospitals in Belgium.

At EarlyTracks, we pride ourselves on our cutting-edge expertise, rooted in our university spin-off background in Natural Language Processing (NLP). This expertise serves as the bedrock of our comprehensive offerings, which encompass not only advanced ML-based solutions, but also terminological resources and intelligently crafted interfaces designed to streamline information management processes.

As the medical IT landscape rapidly evolves, EarlyTracks stands at the forefront, harnessing this momentum to drive our own growth trajectory. We are actively expanding into new markets and developing innovative solutions that shape the future of healthcare, ensuring our clients stay ahead of the curve.

Located in the vibrant city of Brussels, in close proximity to the prestigious EU district and Merode Metro Station, EarlyTracks offers a stimulating work environment at the heart of Europe. Join our dynamic team and embark on an exciting career where you can make a meaningful impact in the healthcare industry.

ABOUT THE JOB

As an **Expert in Interoperability**, you will play a pivotal role in developing and implementing solutions that facilitate seamless medical data exchange and integration across the healthcare system.

Your expertise in (semantic) interoperability standards such as HL7 Fast Healthcare Interoperability Resources (FHIR), SNOMED CT (and other reference terminologies), other relevant interoperability frameworks and data models (such as OMOP), ... along with a deep national understanding of medical data management will be crucial in driving the success of our project.

YOUR RESPONSIBILITIES WILL BE

- Define and execute the interoperability strategy of EarlyTracks, aligning with industry standards and best practices. Identify opportunities to leverage interoperability standards and frameworks to improve data exchange and integration ;

- Lead the implementation of standards (and in particular 'low level' semantic standards like HL7 FHIR and SNOMED CT) across EarlyTracks' solutions and clients. Design and develop data models, profiles, and mappings to ensure smooth interoperability between different healthcare systems and applications ;
- Collaborate with software engineers, machine learning engineers, NLP experts, medical terminologists and data analysts to integrate various healthcare systems, including electronic health records (EHR), laboratory information systems, and clinical research databases ;
- Design and implement interfaces and APIs to enable data exchange and synchronization ;
- Develop and maintain mappings and transformation rules to facilitate the exchange of data between different formats and terminologies. Ensure data integrity, consistency, and accuracy during the mapping process ;
- Stay up-to-date with healthcare regulations, privacy requirements, and security standards related to interoperability (at the Belgian and European level). Ensure that data exchange and integration processes adhere to these regulations and standards ;
- Conduct rigorous testing and validation of interoperability interfaces and workflows to ensure system reliability and data integrity. ;
- Collaborate with healthcare providers, vendors, and industry organizations to understand their interoperability needs and provide guidance on standards adoption and implementation ;
- Represent EarlyTracks in industry forums and contribute to interoperability initiatives ;
- Create comprehensive documentation, including technical specifications, implementation guides, and best practices for interoperability ;
- Conduct training sessions and workshops for internal teams and external stakeholders to promote understanding and adoption of interoperability standards.

WHO YOU ARE

Note: If you are confident that you have the skills and knowledge to perform the duties of this role but do not match one of the criteria below, do not hesitate to apply and explain in your application why you consider your experience remains relevant.

- Education in Computer Science, Health Informatics, or a related field ;
- Proficiency in programming languages such as Python ;
- Strong problem-solving skills and ability to analyze complex interoperability challenges. Proven track record of developing innovative solutions to overcome data exchange and integration barriers ;

- Excellent communication to collaborate effectively with cross-functional teams, healthcare professionals, and external stakeholders. Ability to explain technical concepts to non-technical individuals and influence decision-making ;
- Keen interest in staying up-to-date with emerging interoperability standards, industry trends, and technological advancements.
- Mastering French and English

PICKLIST OF ASPECTS THAT WILL MAKE YOU EVEN MORE UNIQUE

- Experience in implementing and managing interoperability initiatives in the healthcare domain ;
- Experience with API development, data modeling, and database management systems (e.g., SQL, NoSQL) ;
- Knowledge and hands-on experience with interoperability standards and more specifically healthcare ones like HL7 standards (CDA, FHIR), OMOP, DICOM and terminologies (LOINC, SNOMED CT) ;
- Familiarity with integration platforms and tools (e.g., Mirth Connect, BizTalk) ;
- Understanding of healthcare systems, clinical workflows, and data structures.
- Knowledge of electronic health records (EHR), laboratory information systems (LIS), and clinical research databases is beneficial.
- Familiarity with healthcare regulations (e.g., GDPR, EHDS, Data Act) and security standards related to interoperability, data privacy and consent management in healthcare settings.

WHAT'S IN IT FOR YOU

- Get the opportunity to develop a market that faces lots of demands ;
- Work in a company that is driven by its mission (improving the quality of medical records) more than anything else ;
- Work in a company that is scaling quickly with a mature technological vision and growing developments needs;
- Benefit of a working environment that is open, invested in people and where your opinion matters ;
- Enjoy flexible working conditions (hours and location) to find the work-personal life balance that is the best for you ;
- Last but not least, benefit of a competitive salary

INTERESTED?

Send an email with your CV to jobs@earlytracks.com, we'd love to meet you!