



## Musculoskeletal Digital Innovation & Informatics (MDI<sup>2</sup>) Program

Department of Orthopedics & Sports Medicine  
Boston Children's Hospital, Harvard Medical School

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### Healthcare Data Analyst I

The **Musculoskeletal Digital Innovation and Informatics (MDI<sup>2</sup>) Program** in the Department of Orthopedics and Sports Medicine at Boston Children's Hospital and Harvard Medical School is seeking a highly motivated **Healthcare Data Analyst** to join our multidisciplinary team of biomedical engineers, orthopedic surgeons, and computer/data scientists. This role focuses on **translational research** to develop data pipelines that analyze electronic medical records, enabling **immediate impact on patient care** for musculoskeletal conditions.

#### Primary responsibilities:

- Develop strategies for cohort identification
- Query electronic medical records
- Post-process and clean data for high-quality analysis and registry development
- Contribute to developing and validating pipelines for automated information extraction

#### Qualifications:

- A BS in Computer Science, Data Science, or a related field (MS is a plus)
- Strong expertise in Python programming
- Strong expertise in SQL and database querying
- Experience working with healthcare datasets and electronic medical records, particularly the Epic platform
- Experience using and developing applications with large language models

#### Preferred Qualifications:

- Experience building scalable data processing pipelines for large healthcare datasets
- Experience applying machine learning methods to clinical or healthcare data
- Experience contributing to machine learning or data science research (e.g., publications, clinical studies, or algorithm development)
- Familiarity with NLP or clinical text analysis

#### Why Join Us?

Work at the intersection of data science and healthcare, contributing to cutting-edge research that directly enhances clinical practice.

#### Appointment Details

- Full-time, in-person

#### To Apply

Send the following to **Nazgol Tavabi, PhD** at [Nazgol.Tavabi@childrens.harvard.edu](mailto:Nazgol.Tavabi@childrens.harvard.edu):

- CV
- Short statement of goals (1 paragraph)
- Contact information for three references