

## Biomedical Engineer- Gait & Motion Analysis Lab

Engineer using motion capture technology to analyze that gait of children with movement disorders.

Location: 205 E. University Ave, St. Paul, MN.

Full time, weekday hours.

The Motion Analysis Laboratory Engineer I position exists to oversee the use of technology in a clinically meaningful, accurate, and safe manner in the Center for Gait and Motion Analysis. The Engineer I will serve as the clinical team member responsible for collecting and processing clinical motion capture data as well as support the day-to-day operations of the motion lab and oversight of the motion lab database. Other duties include the acquisition, development, implementation, maintenance, and quality assurance of technologies used as clinical or research tools in motion analysis. Additionally, the position provides engineering support for new clinical and research protocols while ensuring quality collection, processing, archival, and retrieval of motion analysis data.

We organize care around each patient's condition which requires staff at multiple levels and across many departments to exhibit exceptional teamwork qualities including communicating efficiently and effectively and adopting the behaviors required for high functioning integrated teams, consistent with our Gillette CARES expectations.

### Major Challenges:

- Works in a diverse professional setting.
- Collects and processes motion capture data in accurate, timely fashion.
- Participates in the research and development of new technologies related to motion analysis.
- Ensures accurate clinical motion analysis data through an ongoing quality assurance program.

### Qualifications:

#### Required:

- BA/BS Degree
- Competency in core programming languages such as Matlab or Python
- Creative problem solving
- Ability to comprehend complex three-dimensional movement
- Ability to maintain highest level of confidentiality
- Ability to handle a variety of tasks at once
- Ability to deal with a variety of interruptions and/or requests from public and/or hospital staff
- Professional attitude to deal effectively and politely with public and hospital staff
- Willingness and capability to acquire new skills as needs arise
- Excellent customer service skills

#### Preferred:

- Experience with secondary programming languages(s): Visual Basic, C++, C#, R
- Experience with database development, maintenance, and SQL Server programming language

#### Beneficial:

- Medical terminology knowledge
- Familiarity of gait and gait patterns

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Gillette Children's Specialty Healthcare provides specialized health care for people who have short-term or long-term disabilities that began during childhood. We help children, adults and their families improve their health, achieve greater well-being, and enjoy life.

To learn more about working at Gillette Children's Specialty Healthcare, please visit <https://www.gillettechildrens.org/careers>.