

*The CRC delivers a range of services to children and adults with disabilities both nationally and locally through our centres in Dublin, Limerick and Waterford and our Outreach Services. The mission of the CRC is that by working together we make a positive difference to the lives of people with disabilities, their families and carers. Our vision is that people with disabilities achieve their potential and live full lives as equal and valued citizens.*



## **Gait and Movement Technologist**

**Gait Analysis Laboratory**

**Fixed Term Contract (16 months), Full-time 35 hours**

An exciting opportunity to work with an experienced multidisciplinary team based primarily in Clontarf. The purpose of this post is to actively contribute towards the provision of an effective gait and movement analysis service, to collect and process movement and other data from children and adults with neurological or other conditions, to prepare data for inclusion in movement reports and to assist with custom software development for quality assurance and research purposes.

Applicants for this position should have the following **essential** criteria:

- A degree in Science, Engineering or Technology.
- Able to present information both written & orally in logical clear manner to patients/carers/physiotherapists & other professionals
- Competent word processing spreadsheet and database skills.
- Ability to organise own time & prioritise workload
- Demonstrate evidence of being self-motivated & remaining up to date with professional practice & new research
- Fluency in spoken and written English

The following criteria are **desirable** but not essential:

- Experience in physical disability
- Experience in computer programming (e.g., MATLAB, Python)
- Experience of data capture in a relevant environment.
- An understanding of human anatomy and physiology.
- A postgraduate qualification in relevant area
- Relevant research experience
- Full driver's licence

Informal enquiries to Dr. Damien Kiernan, Gait Laboratory Manager (01)8542467 or email [dkiernan@crc.ie](mailto:dkiernan@crc.ie). Department of Health Salary Scale, Medical Scientist (Salary range €36,198-58,580 per annum). Applicants must submit a CV and cover letter to demonstrate how they meet the required skills, competencies, and knowledge for the post.

Please forward a letter of application quoting reference number **CRC107/22** with full CV to Human Resources Department by email to [recruit@crc.ie](mailto:recruit@crc.ie) or through Irish Jobs. Applications must be received on or before 5 pm, Monday 17th October 2022.

Interviews for this post will take place the week of 24<sup>th</sup> October 2022.

An active recruitment panel may be created as part of this recruitment process.

## CENTRAL REMEDIAL CLINIC

### JOB DESCRIPTION

<b>Job Title and Grade</b>	<b>Gait and Movement Technologist, CRC Gait Laboratory</b>
<b>Location of Post</b>	This post is based in Clontarf. The CRC has locations in Dublin, Waterford and Limerick and the Gait Laboratory provides mobile gait analysis services to the regions. The post holder will have to travel to other sites from time to time in accordance with service needs.
<b>Details of Service</b>	<p>Gait analysis is a specialized medical service consisting of a 3-dimensional computerized simulation of how a person walks. The objective information provided enables the Gait Laboratory team to differentiate between a number of conditions, to make recommendations for surgical, medical and conservative interventions with confidence, to monitor the progress of each client following intervention and to objectively evaluate the different treatments.</p> <p>The main clinical Gait Laboratory in the Republic of Ireland is in Clontarf, Dublin. The Gait Laboratory also provides outreach services to the South West and South East of the country.</p> <p>There are three major areas of work in the Gait Laboratory, namely, clinical gait analysis, education, and research. The Gait Laboratory Technologist will contribute to all three areas and will also be required to assist the Gait Laboratory Engineer in technical and quality assurance of Gait Laboratory systems.</p> <p>Staff in the Gait Laboratory includes one Clinical Specialist Engineer, Senior Physiotherapists, one Gait Laboratory Technologist, a Manager, and an Administrator. Weekly review clinics take place with a Consultant Orthopaedic Surgeon or Consultant Paediatrician.</p> <p>The <i>equipment</i> used in the lab includes:</p> <ul style="list-style-type: none"> <li>• Coda Motion Analysis System (Coda CX1 motion analysers).</li> <li>• 8-channel Delsys EMG system</li> <li>• 2 Kistler force plates.</li> <li>• Panasonic video system.</li> <li>• Activity monitors</li> <li>• Mobile Gait Laboratory Equipment –Coda CX1 Motion Analysers, AMTI portable force plates, 8-channel Delsys EMG system, Panasonic video system.</li> <li>• Codamotion video vector system</li> </ul>
<b>Reporting Relationship:</b>	The post holder will report to the Gait Laboratory Manager
<b>Key Working Relationships:</b>	<p>The post holder will:</p> <ul style="list-style-type: none"> <li>• Work with the Gait Laboratory team (Senior Physiotherapists, Clinical Specialist Engineer, Gait Lab Technologist, Administrator, Orthopaedic Surgeons)</li> <li>• Liaise with CRC Physiotherapists, Medical Consultants and other CRC Staff</li> </ul>
<b>Qualifications /Experience</b>	(a) A degree in Science, Engineering or Technology.
<b>Purpose of the Post</b>	The purpose of this post is to actively contribute towards the provision of an effective gait and movement analysis service, to collect and process movement and other data from children and adults with neurological or

	<p>other conditions, to prepare data for inclusion in movement reports and to contribute to on-going custom software development.</p>
<p><b>Principal Duties and Responsibilities</b></p>	<p><b>Clinical responsibilities</b></p> <ul style="list-style-type: none"> <li>• Preparation of the Gait Laboratory’s assessment area.</li> <li>• Preparation of kinematic markers, electromyographic sensors and other equipment for use in the patient session.</li> <li>• Preparation of patient assessment forms prior to assessment.</li> <li>• Assembling of consumable materials to be used during the assessment.</li> <li>• Preparation of data capture equipment</li> <li>• Calibration checks on equipment to be performed every patient day prior to patient arrival and recorded.</li> <li>• Operation of sophisticated movement analysis equipment according to local protocols and national standards during patient collections during patient assessments.</li> <li>• Recording of patient assessment activity on patient assessment forms</li> <li>• To assist the session lead (Physiotherapist or Clinical Specialist Engineer) in the assessment of the patient, including placing of EMG sensors and kinematic markers on the patient if required.</li> <li>• To process movement and other data to a high standard using proprietary and commercial software.</li> <li>• To be responsible for maintenance of accurate records through clinic reports, written records and use of the computerised patient data system.</li> <li>• To undertake any other duties as may be deemed necessary and be prepared to work at on mobile Gait Laboratory on occasions.</li> <li>• To use and handle delicate instrumentation correctly and with care.</li> <li>• To ensure that all equipment defects, accidents and complaints are reported to the Gait Laboratory Manager immediately and that appropriate action is taken by those concerned.</li> <li>• To report all complaints and accidents to the immediate senior member of staff as soon as possible and document accordingly.</li> <li>• To help maintain the Gait Laboratory database of clinical data.</li> <li>• To attend and contribute to weekly Gait Laboratory meetings.</li> <li>• To liaise with and advise relevant medical staff and physiotherapy staff with regard to patient care.</li> <li>• To encourage co-operation for assessment where there may be significant barriers to understanding such as age, learning difficulties, autism, cognitive impairment, behavioural problems, hearing or vision impairment.</li> </ul> <p><b>Technical Responsibilities</b></p> <ul style="list-style-type: none"> <li>• To assist the Clinical Specialist Engineer/Manager with technical and quality assurance output of all Gait Laboratory systems</li> <li>• To contribute to on-going custom software development for quality assurance and research purposes.</li> </ul> <p><b>Educational Responsibilities</b></p> <ul style="list-style-type: none"> <li>• To contribute to the education of multidisciplinary groups, patients, families and carers as appropriate.</li> <li>• To participate in the in-service education programme within the specialist clinical area.</li> </ul> <p><b>Research Responsibilities</b></p> <ul style="list-style-type: none"> <li>• To participate in appropriate work-related research/evaluation projects and to be aware of current research relevant to the speciality.</li> </ul>

	<p><b><u>Health and Safety</u></b>  The Gait Laboratory Technologist will comply with all of CRC’s policies and procedures in relation to child and adult protection and health and safety etc.</p> <p><i>These duties and responsibilities are a reflection of the present service requirements and may be subject to review and amendment by the Gait Laboratory Manager to meet the changing needs of the Gait Laboratory. The post holder will be expected to contribute to the development of the post while in office.</i></p>
<p><b>Terms and Conditions</b></p>	<p><b>Pay Scale:</b></p> <p><b>Hours of Work:</b> Negotiable</p> <p><b>Contract Status:</b></p>
<p><b>Qualifications /Experience</b></p>	<ul style="list-style-type: none"> <li>• A degree in Science, Engineering or Technology.</li> <li>• Experience in computer programming (e.g., MATLAB, Python)</li> <li>• Able to present information both written &amp; orally in logical clear manner to patients/carers/physiotherapists &amp; other professionals</li> <li>• Competent word processing spreadsheet and database skills.</li> <li>• Ability to organise own time &amp; prioritise workload</li> <li>• Demonstrate evidence of being self-motivated &amp; remaining up to date with professional practice &amp; new research</li> <li>• Fluency in spoken and written English</li> </ul> <p><b>Desirable requirements:</b></p> <ul style="list-style-type: none"> <li>• Experience in physical disability</li> <li>• Experience of data capture in a relevant environment.</li> <li>• An understanding of human anatomy and physiology</li> <li>• A postgraduate qualification in relevant area</li> <li>• Relevant research experience</li> <li>• Full driver’s licence</li> </ul>