

**Faculty of Biological Sciences  
School of Biomedical Sciences**

**Summer Research Placement  
8 weeks, between 17/06/2024 and 11/08/2024**

### **Job Summary**

Stipend is £270 per week.

Informal enquiries may be made to [a.capozio@leeds.ac.uk](mailto:a.capozio@leeds.ac.uk)

To apply, please send your CV and a covering letter (200-300 words maximum)

**Closing Date: Noon on 2<sup>nd</sup> February 2024  
Interviews: 19<sup>th</sup> February 2024**

### **Job Description**

The Motor Control and Neurorehabilitation research team, led by Dr Sarah Astill and supported by Dr Antonio Capozio, is currently investigating whether combining arm cycling with spinal stimulation can induce spinal plasticity, decrease fatigue and increase the time people can exercise. The successful candidate will be trained to use transcutaneous electrical stimulation (TCES) to excite the spinal cord, and will be supported to develop and implement a protocol to use surface EMG to measure muscle activity and spinal excitability non-invasively. During the project the candidate will be responsible for recruiting participants, managing visits to the research lab and taking informed consent. On testing days, the candidate will work alongside other members of the lab to deliver non-invasive stimulation to the participants while they exercise and record participants' perceived levels of fatigue. The candidate will learn principles of signal analysis and how to use specific software for data acquisition and analysis in the human neuroscience field.

**Reports to: Dr Antonio Capozio**

### **Main Duties and Responsibilities**

- Training in the use of surface electromyography and delivery of transcutaneous spinal cord stimulation;
- Training in the use of the acquisition and data analysis software;
- Advertising the project via institutional media and recruiting potential participants for the project;
- Contacting potential participants and liaising with them to schedule experimental sessions;
- Delivering non-invasive brain and spinal stimulation during the experimental sessions;
- Contributing to the functioning and organisation of the laboratory;
- Planning and management of laboratory resources, ensuring good progress of work and keeping detailed participants records;
- Collecting data and extrapolating data for quantitative analysis;

- Presenting and discussing the findings of the research to the Spinal Cord Injury research team.

## **Person Specification**

### **Essential**

A background in sport sciences, neuroscience, human physiology or allied discipline.

### **Additional Information**

Details of the terms and conditions of employment for all staff at the university, including information on pensions and benefits, are available on the Human Resources web pages accessible via the links on the right hand side, or at <http://www.leeds.ac.uk/hr/index.htm>

### **Criminal Record Disclosures**

A Criminal Records Disclosure is not required for this position. However, applicants who have unspent convictions must indicate this in the 'other personal details' section of the application.

### **Disabled Applicants**

The post is located in the Faculty of Biological Sciences. Disabled applicants wishing to review access to the building are invited to contact the department direct. Additional information may be sought from the Recruitment Officer, email [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk) or tel + 44 (0)113 343 1723.

Disabled applicants are not obliged to inform employers of their disability but will still be covered by the Disability Discrimination Act once their disability becomes known.

**Further information for applicants with disabilities, impairments or health conditions is available in the applicant guidance.**

### **University Values**

All staff are expected to operate in line with the university's values and standards, which work as an integral part of our strategy and set out the principles of how we work together. More information about the university's strategy and values is available at <http://www.leeds.ac.uk/comms/strategy/>