**Title: Master's Thesis Opportunity on Proteomic Analysis of Biomaterials as a Therapeutic Strategy for Spinal Cord Injury Repair**

**Description:**

The Biomaterials for Neural Regeneration group at the Institute of Bioengineering of Catalonia (IBEC) is excited to announce an exceptional opportunity for a motivated Master’s student to join our innovative research team. We are seeking a talented individual in the field of Bioinformatics or related disciplines to engage in a cutting-edge project focused on the effects of supramolecular materials in spinal cord injury repair. This master thesis project will involve analyzing the proteomic profile at various time points and evaluating the impact of different chemical modifications on recovery.

**Objectives:**

1. Analyze proteomic data obtained from the Proteomic Core at the Institute for Research in Biomedicine (IRB), focusing on the effects of supramolecular materials post-spinal cord injury.
2. Investigate the relationship between proteomic changes and recovery outcomes, considering different chemical modifications of the biomaterials.
3. Collaborate with interdisciplinary teams to integrate findings and enhance therapeutic strategies for spinal cord repair.

**Background and Experience:**

1. Background in bioinformatics, molecular biology, or a related field.
2. Proficiency in software tools such as DAVID, Metascape, or similar platforms for data analysis and visualization.
3. Experience with proteomic data analysis, including statistical methods and bioinformatics pipelines.

If you are a highly motivated Master’s student with a passion for research and a solid background in biology, biomaterials, or bioinformatics, we encourage you to apply for this exciting opportunity. This project will equip you with valuable skills and knowledge to advance your career in biomedical research.

**To apply, please submit the following materials:**

1. Your current curriculum vitae (CV), including academic transcripts.
2. A cover letter detailing your research interests, relevant experience, and career goals.
3. Contact information for one academic reference who can provide letters of recommendation.

Please send your application to Dr. Zaida Alvarez (zalvarez@ibecbarcelona.eu) and cc Susana Rodriguez (srodriguez@ibecbarcelona.eu) by October 15, 2024. Shortlisted candidates will be contacted for an interview to further discuss the project and address any questions.

We look forward to receiving your application and potentially welcoming you to our dynamic research team. If you have any questions or need further information, please do not hesitate to reach out.