



Call for applications for the assignment of 1 research fellowship grant for carrying out Category B research activities, as per Article 22 of Italian Law No. 240/2010, for the Scientific Disciplinary Sector of IBIO-01/A – Bioengineering, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Engineering of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/28_24

Departmental Faculty	Engineering
Research theme	Exoskeleton-assisted walking for prehabilitation and active aging.
Brief description of the research	<p>The candidate will carry out her/his activity within a research project which aims to design and validate novel paradigms of moderate-intensity gait training programs based on robotic exoskeletons to help elderly people limit the gradual decay of physical functions due to aging.</p> <p>The candidate's activity involves the collection and analysis of biomechanical data during the testing of a hip exoskeleton embedding newly implemented control strategies for strength and endurance training, including: <i>i)</i> preliminary testing with young healthy subjects to verify the robustness and reliability of the controller, <i>ii)</i> experiments with elderly subjects to validate the effectiveness of the exoskeleton-aided training.</p>
Scientific Supervisor	Dr Nevio Luigi Tagliamonte
Scientific Disciplinary Sector	IBIO-01/A – Bioengineering
Language knowledge and skills	Good knowledge of written and spoken English
Date of the interview	19th September 2024, at 4:00 p.m. Remote candidates on Microsoft Teams platform