



**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 BIO/09 – Physiology, at the facilities of the Centro Integrato di Ricerca (CIR - Integrated Research Centre) and of the Departmental Faculty of Medicine and Surgery of Università Campus Bio-Medico di Roma.**

Call Code: ASS-RIC/16\_23

<b>Departmental Faculty</b>	Medicine and Surgery
<b>Research theme</b>	Restitution of proprioception in amputees: neurophysiological and functional evaluation of its effects for improving control and embodiment of upper limb prosthetic devices.
<b>Brief description of the research</b>	<p>The research is focused on neurophysiology of human-computer interaction; in particular, it will be conducted on able-bodied and amputee populations. Using neurophysiological signal analysis techniques, methods to optimize prosthetic use will be explored by evaluating the effectiveness of innovative sensory feedback strategies by type of encoded information and method of stimulation. Research will include evaluation of surgical patients and able-bodied participants, with the goal of understanding the short- and long-term effects of using advanced prostheses to improve users' quality of life.</p> <p>The activities require:</p> <ul style="list-style-type: none"><li>- Knowledge in neurophysiology of motor control.</li><li>- Experience in neurophysiological signal analysis.</li><li>- Expertise in muscle and somatosensory physiology.</li><li>- Skill in designing and implementing clinical research protocols.</li></ul>
<b>Scientific Supervisor</b>	Prof. Giovanni Di Pino
<b>Scientific Disciplinary Sector</b>	BIO/09 – Physiology
<b>Language knowledge and skills</b>	English B2-C1
<b>Date of the interview</b>	<b>18<sup>th</sup> December 2023, at 11:00 a.m.</b> Remote candidates on Microsoft Teams platform