



Call for Selection for the award of no. 3 research contracts pursuant to art. 22 of Law no. 240/2010, PNRR - Mission 4 "Education and Research" Component 2 "From Research to Enterprise" - Investment 1.2 "Funding of projects submitted by young researchers" (D.D. no. 47 of 20 February 2025).

Competition code: CDR/01_25

Departmental Faculty/Research Unit of affiliation	Departmental Faculty of Engineering
Place of activity	Campus Bio-Medical University of Rome Via Giacomo Dina, 36 - Rome
Scientific Disciplinary Group	09/IMIS-01 - Measurements
Scientific Area	IMIS-01/A - Mechanical and thermal measurements
Profile of the researcher to be recruited	<p>PhD with research experience abroad and solid expertise in the design, development and characterisation of sensors and algorithms for monitoring physiological and environmental parameters. With international experience of at least 8 months and specialised in the application of such sensors in the field: Sports: monitoring of athletes to optimise performance and reduce the risk of injury; Occupational: prevention of occupational injuries and diseases; Clinical: development of therapies and rehabilitation pathways tailored to the specific needs of patients.</p> <p>The candidate must have carried out a research period abroad during the PhD of at least three months.</p>
Project title	Development and validation of sensors for monitoring physiological parameters
Description of the research project	The research project focuses on the development and validation of sensors for monitoring physiological (e.g., heart rate, blood pressure, respiratory rate), biomechanical (e.g., joint range of motion and posture) and environmental (temperature, humidity, gas concentrations) parameters. The integration of space-saving sensors with additive manufacturing techniques will make it possible to obtain customised devices that are inexpensive and adaptable to different usage scenarios, guaranteeing their accessibility even in contexts with limited resources.
Scientific Supervisor	Prof. Emiliano Schena
Maximum number of publications	12
Language knowledge and skills	Knowledge of the English language



Date, time and place of interview	7 May 2025, 2 p.m. Remote candidates on Microsoft platform
Funding body	Ministry of University and Research (MUR)
Funding programme/call	PNRR - Mission 4 'Education and Research' Component 2 'From Research to Enterprise' - Investment 1.2 'Funding of projects by young researchers' Decree for the recruitment of international post-doctoral researchers
CUP	C83C25000470006

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