

Call for Selection for the award of no. 1 research contract pursuant to art. 22 of Law no. 240/2010, Scientific-Disciplinary Sector IBIO-01/A – Bioengineering, at the facilities of the Research Unit of Intelligent Health Technologies and of Departmental Faculty of Engineering of the Campus Bio-Medico University of Rome (competition code: CDR/06\_25).

Competition code: CDR/06\_25

Departmental Faculty/Research	Departmental Faculty of Engineering/
Unit of affiliation	Intelligent Health Technologies
Place of activity	Campus Bio-Medical University of Rome
_	Via Alvaro del Portillo, 21 – Roma
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Scientific Disciplinary Group	09/IBIO-01 – Bioengineering
Scientific Disciplinary Group	07/1DIO-01 - Dioengineering
Scientific-Disciplinary Sector	IBIO-01/A – Bioengineering
Project title	Design and development of a device for electrochemical
	monitoring of the cell culture differentiation process.
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Description of the research	The project aims to develop an innovative platform for
project	monitoring the cell differentiation process, using on non-
	destructive and cost-effective analysis techniques.
	The candidate will contribute to the design and implementation
	of a device capable of in-line, real-time detection of metabolites
	and electrolytes (e.g., glucose, lactate, calcium) in cell cultures.
	The project is structured into several integrated phases: device
	fabrication and functionalization of sensing surfaces; detection
	of target biomarkers using various electrochemical techniques
	(potentiometric and galvanic); and development of a dedicated
	user interface for data management and visualization.
	The project will offer the opportunity to acquire
	multidisciplinary expertise in the fields of tissue engineering,
	electrochemistry, and the development of integrated sensor
	systems.
Scientific Supervisor	Dott. Joseph Lovecchio
Maximum number of	3
publications	
*	A1 11 11 C1 F "11
Language knowledge and skills	Advanced knowledge of the English language
Date, time and place of interview	8th January, 2026, 3:00 p.m.
	Remote candidates on <b>Microsoft</b> platform
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Funding body	MUR
Funding programme/call	Progetto SISTINE - Unleashing the full potential of Tissue Engineering using Machine Learning-inspired standard metrics, project number FIS-2023-03542, linea di finanziamento Bando MUR FIS 2 - Fondo Italiano per la Scienza (FIS), Principal Investigator Dott. Joseph Lovecchio, CUP J53C24004210001
Grant agreement number	FIS-2023-03542
CUP	J53C24004210001