

Call for Applications for the Award of No. 1 Research Position pursuant to Article 22-ter of Law No. 240/2010, Scientific-Disciplinary Group 09/IBIO-01 – Bioengineering, Scientific-Disciplinary Sector IBIO-01/A - Bioengineering, at the facilities of the Research Unit in Intelligent Health and Technologies and the Faculty Department of Engineering of the Università Campus Bio-Medico di Roma (competition code: IR/08_26).

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Research positions available	1
Contract duration	22 months
Departmental Faculty/Research Unit of affiliation	Faculty of Engineering / Intelligent Health and Technologies Research Unit
Place where the activities will be carried out	UCBM
Scientific Disciplinary Group	09/IBIO-01 – Bioengineering
Scientific-Disciplinary Sector	IBIO-01/A - Bioengineering
Subject of the contract (title of the research program)	Development of evaluation indices for low-cost monitoring of the cell differentiation process.
Brief description of the research program to which the position is linked	The project aims to develop assessment indices for monitoring the cell differentiation process, based on non-destructive and low-cost analysis techniques. The candidate will be involved in the implementation of one or more evaluation indices for the in-line and real-time identification of the cell differentiation process through non-destructive techniques (e.g. metabolites/electrolytes in culture medium). The project is divided into several integrated phases: implementation of cell culture protocols; detection of biomarkers for monitoring cell differentiation; and development of one or more assessment indices using machine learning techniques. The work will offer the opportunity to acquire multidisciplinary expertise in the fields of tissue engineering, regenerative medicine, and biotechnology.
Research Supervisor/Tutor	Dott. Joseph Lovecchio
Maximum number of publications	1
Language knowledge and skills	English
Any additional qualifications subject to evaluation	Proven experience in the research topic



Date and time of the interview	3rd September 2026, at 12:00 p.m.. Remote candidates on Microsoft Teams platform
Funding body	MUR
Funding Programme / Call for Proposals	Project 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.