



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 FIS/07 – Applied Physics, 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/23_23

Departmental Faculty	Medicine and Surgery
Research theme	Mathematical modeling of cardiac magnetic activity at the tissue scale.
Brief description of the research	Development of models able to reproduce the cardiac electric activity, based on phenomenological and biophysical descriptions. Optimization of model parameters to reproduce electrical activity as recorded in experimental cells cultures. Resolution of electromagnetic field generated by cardiac activity. Model optimization based on experimental measures of magnetic field. Simulation of the magnetic field generated by different patterns of electrical activity.
Scientific Supervisor	Dott. Alessandro Loppini
Scientific Disciplinary Sector	FIS/07 – Applied Physics
Language knowledge and skills	English - level B2
Date of the interview	2nd February 2024, at 10:00 am Remote candidates on Microsoft Teams platform