

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 IINF-05/A - Information Processing Systems, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Engineering of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/51_24_PNRR

Departmental Faculty	Engineering
Research theme	Artificial Intelligence methods to predict lung cancer risk
Brief description of the research	<p>The research aims to develop an advanced Artificial Intelligence (AI) model to predict lung cancer risk in the high-risk population undergoing screening. The model will integrate personalized clinical data (e.g., individual risk factors and baseline characteristics) with parameters derived from LDCT imaging and [18F]FDG PET/CT.</p> <p>The activities include:</p> <ul style="list-style-type: none">- Multimodal integration: Analysis of clinical and imaging data to identify complex correlations.- AI model development: Training advanced algorithms to enhance predictive capabilities, including the development of generative AI methods.- Model validation and personalization: Testing the model to ensure clinical reliability and generalizability.- Reduction of computational complexity: Optimizing the model for practical clinical implementation, even in resource-constrained environments.
Scientific Supervisor	Prof. Paolo Soda
Scientific Disciplinary Sector	IINF-05/A - Information Processing Systems
Language knowledge and skills	English, B1
Date of the interview	28th April 2025, at 5.30 p.m. Remote candidates on Microsoft Teams platform