# CALL FOR APPLICATIONS FOR PhD PROGRAMMES - CYCLE XXXVIII

## ECOSYSTEM PROGRAMME

### TABLE OF POSITIONS AND RESEARCH TOPICS

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| LAW AND INNOVATION  | 1                      | Active ageing and social-welfare policies    | The research activity will be developed within the Spoke n. 7 (Smart solutions and educational programs for anti-fragility and inclusivity) of the Project Innovation Ecosystem. Innovation digitalisation and sustainability for the diffused economy in Central Italy. The research project should be in line with the objectives of the Work Package 2 (Economy, industries and culture for active elderly people), with particular regard to strengthening the intergenerational social network. Specifically, the research has to contribute to the task 2.3, whose aim is defining personalised care that, starting from the needs analysis of elderly people with fragility, proposes innovative solutions for delivering social welfare services. The research objective is the analysis of legal and social policies for elderly people in order to propose legal solutions for the implementation of social welfare services, adopting a social inclusive and an intergenerational perspective. The research investigates, from a legal viewpoint, strategies to support the needs of older adults and to promote active ageing.  
Reference scientific areas in which candidates can frame their research  
IUS/01; IUS/02; IUS/03; IUS/04; IUS/07; IUS/08; IUS/10; IUS/14 |
|                     | 1                      | Data governance and data-driven policies for territories and companies | The research activity will be developed within the Spoke 7 (Smart solutions and educational programs for anti-fragility and inclusivity) of the Project Innovation Ecosystem. Innovation digitalisation and sustainability for the diffused economy in Central Italy. The research project should align with Work Package 3 (Industrial value chains with high potential growth and social innovation), concerning transversal methods and tools to enhance industrial supply chains with high growth potential and social innovation. Specifically, the research should contribute to the development of task 3.4 aimed at setting up a centre concerning study, services and elaboration of data management policies for businesses and territorial autonomies, also in synergy with each other. The centre aims at favouring the transfer to companies of the competence in terms of management, localisation and storage of data and, consequently, the establishment of territorial tangible and intangible digital infrastructures in compliance with legislation and best practices (neutrality, interoperability, interconnection, usability, security and resilience, protection of personal data). The research will consist of the analysis of legal issues relating to data government and management of private and public companies and entities, also in connection with each other, to develop regulatory tools and practices, so that individuals and administrations can jointly make use, in their respective areas, of the added value brought by data driven innovation, in compliance with fundamental rights. The research project must involve one or more of these areas: open data; interoperability; security, and resilience of data management systems.  
Reference scientific areas in which candidates can frame their research  
IUS/01; IUS/02, IUS/04, IUS/06, IUS/08, IUS/10, IUS/13, IUS/14, IUS/17, IUS/20 |
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| **EDUCATION, CULTURAL HERITAGE AND TERRITORIES** | 1                     | Inclusive territorial systems: the enhancement of heritage through accessibility | The doctoral course, in synergetic connection with the strategies promoted by the PNRR, moves in the direction of the design and development of cultural welfare systems able to promote accessibility and inclusion also of people with disabilities and / or fragility. The realization of these aims is implemented within the territorial plots of services related to tourism and the enhancement of heritage. For these reasons, the main objective of the research path is the creation of solutions, products and services that can support the creation of places and spaces in which people with disabilities and / or fragility find forms of expression / personal well-being and social inclusion. In detail, the project is aimed at promoting solutions designed to ensure a wider accessibility and usability of the territorial heritage, material and not, through an approach based on the recognition, sanctioned by the WHO, of the effectiveness of some specific cultural, artistic and creative declinations, such as museums.  

**Reference scientific areas in which candidates can frame their research**
M-GGR/01; M-PED/03 |
| **EDUCATION, CULTURAL HERITAGE AND TERRITORIES** | 1                     | Accessibility for the enhancement of cultural heritage: designing to include       | Cultural heritage, the heritage of all, is still inaccessible due to a series of barriers of a physical and economic, sensorial, socio-cultural and digital nature.  

The research project intends to study, starting from the analysis of the needs of visitors and in particular of people with fragility and disability, solutions for planning access to the archaeological, architectural, artistic and museum heritage through the elaboration and systemisation of innovative, standardisable and implementable approaches (from preparation to the visit to hospitality) to improve the accessibility and inclusion of museum sites; tools for subjective well-being and life satisfaction, by virtue of its relational aspects, and for the enhancement of resources (empowerment) and learning capacity.  

**Reference scientific areas in which candidates can frame their research**
L ART/02; L ART/04; L ANT/07; ICAR 16; SECS-P/08; M STO/08 |
| **EDUCATION, CULTURAL HERITAGE AND TERRITORIES** | 1                     | Strategic Planning for accessibility of Archaeological Parks                      | The main objective is to conduct research on content related to archeological parks, and on innovative methods, including ICT tools, for the dissemination of cultural content, building on the ongoing Pilot in the framework of the management plan for the Pollentia-Urbs Salvia archeological park, with specific reference to Strategic line 2 (equipment and services) and 3 (fruition for learning and entertainment). The goal is to contribute to eliminating architectonical as well as cultural barriers, in line with the standards of Public Archeology and with recommendations about planning truly accessible archaeological parks. The aim is also to implement a participatory approach, attentive to the needs of all potential users, with a focus on the elderly.  

**Reference scientific areas in which candidates can frame their research**
L-ANT/07 |
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<td><strong>GLOBAL STUDIES, INSTITUTIONS, RIGHTS, DEMOCRACY</strong></td>
<td></td>
<td>Ethics, Public Policy and Law for Data Governance</td>
<td>The project’s objective is to develop and transfer to companies and local and national institutions an ethics by design approach to data governance for digital technologies, in consistence with the European strategy on AI and its human-centric approach as well as with the pillars of the NPRR strategy. The project will: a) define and mainstream the major AI ethics principles for data governance, including transparency, explainability, fairness, and autonomy in the context of public policy and public sector organisations, by considering legal requirements and best practices in force; b) focus on the ethical, public policy, and legal dimensions of cybersecurity issues implied in data governance, including ethical, public policy and legal assessment tools; c) investigate the role of a meaningful human control over data governance and digital technologies in a ethical, public policy, and legal perspective. During the project both users and institutions will be engaged with the aim of fostering inclusive digital systems for the well-being of individuals and the good of society as a whole. <strong>Reference scientific areas in which candidates can frame their research</strong> M-FIL/03; IUS/08; IUS/10; SPS/04</td>
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<td></td>
<td>1</td>
<td>Open Innovation Based on People and Community Needs</td>
<td>The candidate will work on the project named “Innovation, digitalisation, and sustainability for the diffused economy in Central Italy” funded under the National Recovery and Resilience Plan (NRRP) for the strengthening of research structures and creation of R&amp;D &quot;innovation ecosystems&quot;. The objective is to deploy an open innovation platform that can give target audiences easy, engaging, and secure means to submit their ideas for new products and services. Gaining customers, users, and stakeholders’ insights is crucial for successful innovation in companies, public administrations, and institutions. Moreover, the analysis of the role of public administrations and local authorities in enabling new participatory strategies, innovative communication tools, and community co-creation is needed. This kind of platform can be used for a variety of idea-generating activities. In addition, leveraging an open innovation platform is a way to let customers and users know that their input is valued. <strong>Reference scientific areas in which candidates can frame their research</strong> SECS-P/08; IUS/10; SPS/04; SPS/08</td>
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| QUANTITATIVE METHODS FOR POLICY EVALUATION        | 1                      | Curriculum QMPE3 - Financial solutions and intermediation models for independent and sustainable living (ESG compliant) | The research project focuses on the analysis and proposal of new intermediation models and financial instruments with social impact aimed at achieving suitable quality of life standards in terms of spending capacity, residential environment and welfare needs of the weakest segments of the population at the socio-economic level. Specifically, the research activity will focus on the study and implementation of a smart, safe, sustainable and affordable living environment through the design and development of:  
- A literature review based on modern quantitative methodologies.  
- A preliminary evaluation of quantitative methodologies to be applied in the project.  
- Social housing practices and sustainable constructions in terms of ESG criteria.  
- Home equity conversion models and investments vehicles (i.e. financial and operational schemes that allow elderly individuals with limited current income, but with a significant proportion of their wealth allocated in their home to convert the value of the latter into liquidity. At the same time, the homeowner retains the right to housing with the possibility of health care assistance). The scope is to supplement the current level income of the abovementioned individuals as they age. The increased spending capability (including on medical and welfare needs) should eventually improve their quality of life. Therefore, the main aim of this research is to mitigating critical social issues that current traditional welfare mechanisms struggle to handle.  
Reference scientific areas in which candidates can frame their research  
SECS-P/01; SECS-P/02; SECS-P/05; SECS-P/06; SECS-S/01; SECS-S/03; SECS-S/05; SECS-S/06; SECS-P/11 |
|                                                    | 1                      | Curriculum QMPE3 - Study of the value chains of creative and Made in Italy companies and identification of organisational and management improvement paths | The research proposes to identify new business models in order to innovate the subsequent issue: the approach to markets, product and service offers of creative and Made in Italy companies. It is considered fundamental, in the first instance, to carry out a systematic literature review, in order to identify the research already carried out and the main developments, as well as the main managerial implications.  
A preliminary evaluation of quantitative methodologies to be applied in the project.  
Subsequently, through a qualitative field research, primary information will be collected on a sample of companies. Following processing (Nvivo) and triangulation with secondary data, the main intervention trajectories to be suggested for the development of the type of companies investigated will be identified.  
Particular attention will be paid to the identification of the national and international customer journey, the identification of prospective applications of blockchain, metaverse and NFT.  
Reference scientific areas in which candidates can frame their research  
SECS-P/01; SECS-P/02; SECS-P/05; SECS-P/06; SECS-S/01; SECS-S/03; SECS-S/05; SECS-S/06; SECS-P/08 |
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<td>HUMANITIES AND TECHNOLOGIES</td>
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<td>Digital technologies for the valorization and fruition of cultural heritage</td>
<td>The main objective is to harness the potential of digital technologies for the valorization of cultural heritage. The research project will devise pathways to facilitate access to culture and cultural heritage sites, by integrating the physical and the virtual dimension. It will elaborate innovative tools to overcome physical, sensory and cognitive barriers, to promote the sharing and re-use of public cultural data, and to improve communication with citizens and firms. In collaboration with experts (art historians, archeologists, archivists, architects) as well as museums, archaeological parks, and archives, the project will explore new methods and applications in the fields of Virtual Reality, Augmented Reality, videomapping, and holographic displays – accessible in presence, or via telepresence and telehousing.</td>
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*Reference scientific areas in which candidates can frame their research*

ING-INF/05; M-STO/08; L-ART/02; L-ART/04; L-ANT/07