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UFFICIO PROGRAMMAZIONE

RUOLI E RECLUTAMENTO

COMPARATIVE SELECTION FOR N. 34 FIXED TERM JUNIOR RESEARCH ASSOCIATE – ART. 24, PARAG. 3, LETTER A) OF LAW NO. 240 DATED 30 DECEMBER 2010 – 33 FULL TIME AND 1 PART-TIME - THREE-YEAR TERM – ABSTRACT.

Part-time positions and positions with assistance activities (Relief activities) are specified in the following label

Art. 1 – ASSESSMENT PROCEDURES

Ref	N. Position	DEPARTMENT	Ac. recruitment field	Academic discipline	Research field	Research activities	Interview	publications	Foreign requested language and level
1	1	DGIUR	12/E2	IUS/02	Juridical sciences	The project focuses on legal issues related to Artificial Intelligence (AI) systems, which, on the one hand, give significant growth opportunities for several economic sectors, and, on the other hand, generate hardly manageable risks. Indeed, where the use of this kind of systems causes injuries to goods and/or persons, it is not easy to identify the proper liability regime. In the light of the recent Proposal for a Regulation on a European approach for AI drafted by the European Commission, and in line with the goals of the Centre for “Legal studies on Artificial Intelligence”, based at the Law Department, the research project aims at analysing the upcoming provisions reconciling them with tort law principles at the national as well as at the European level.	02/12/2021	12	English (good)
2	1	DGIUR	12/E3	IUS/03	Juridical Sciences	The goal of research and teaching is to investigate the ways in which agri-food goods schemes contribute to guaranteeing a high level of biodiversity and the protection of the environment and climate, considered as a global common. Firstly, an analysis will be developed of the impact of the regime of these assets on biodiversity, the environment and the climate, as well as of the rules and techniques with which the law builds the relationship between the regime of property and the protection of biodiversity and of the environment. Possible interpretative evolutions of existing law will then be studied with the prospects for reform aimed at making the agri-food production regime functional to the transition towards sustainability, biodiversity, environmental protection and climate resilience with attention to safeguards and remedies aimed at guarantee the effectiveness of this link.	02/12/2021	12	English (good)
3	1	DISAG	13/B1	SECS-P/07	Economics	Agri-food companies have strong impacts in terms of greenhouse gas emissions and reduction of biodiversity. To reduce these impacts, it is necessary to introduce innovative mechanisms for assessing companies’ performance that integrate the environmental and social dimensions with the economic one, also considering the strong specificities of the sector that are still poorly deepened in the literature. The project, therefore, aims to define monitoring and reporting systems that ensure the alignment of companies with the SDGs and the Paris Agreements. Considering the centrality and novelty of the	02/12/2021	12	English (good)



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						topic, the project also includes also the involvement of some relevant companies, through interviews, field analyses and participation in their internal activities. The evidence gathered will provide teaching cases for university courses related to the green transition.			
4	1	DISAG	13/B1	SECS-P/07	Economics	The aim of the project is to understand under what conditions and how the use of digital technologies in co-production processes can achieve advantages (in terms of creating public value), i.e. how it is possible to exploit digital technologies in co-production to pursue equity, efficiency and effectiveness in the creation and distribution of public value co-produced. The research method that will be used is the case study as it allows a thorough and detailed understanding of a particular phenomenon, focusing on detailed descriptions of the latter and studying it in its natural context. To this end, this method makes use of the use of various data collection sources, such as interviews, observations, questionnaires, documents and direct participation of the researcher in the development of the processes concerning the object of investigation.	02/12/2021	12	English (good)
5	1	DEPS	13/A1	SECS-P/01	Economics	The research activity focuses on all Italian municipalities. The research questions to be answered are: 1) How ready are the Italian municipalities to face the ecological transition? 2) What are the public intervention models for the promotion of high-productivity environmental innovation in ecological transition processes? 3) What are the economic, infrastructural and behavioral effects of the ecological transition on Italian municipalities? The project achieves a convergence between environmental economics, behavioral economics and the economics of innovation to tailor the best transformation path for a territory. The project is in collaboration with Enel X. The researcher will be required to carry out teaching activities that are consistent with the project, in the degree courses of the Department of Political Economy and Statistics of the University of Siena	06/12/2021	12	English (good)
6	1	DEPS	13/A2	SECS-P/02	Economics	The selected Researcher will be required to work on: (i) the design of integrated policy instruments aimed at addressing the market failures associated with green innovations; (ii) the analysis of the effects of environmental regulations on the production and adoption of green innovations; (iii) the measurement of the managerial component of environmental productivity; (iv) the exploration of the effects of green innovations on the labour market. Methods of analysis include in particular: model calibration, policy impact evaluation, regulation theory, production function estimation and productivity analysis. The research is aimed at elaborating sound policy instruments for the ecological transition.	06/12/2021	12	English (good)
7	1	DISPOC	09/H1	ING-INF/05	Computer science	The research is part of a European project coordinated by the University of Siena, which aims at examining under which conditions the quality of deliberation and participation can be improved and expanded by enabling technologies that enhance, facilitate and make the participation and inclusion of European citizens more systematic. The activity meets the request of article 2.1 of Ministerial Decree no. 1062 of 08-10-2021 aimed at	06/12/2021	12	English (excellent)



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						"financing research contracts on issues of innovation, enabling technologies and the broader digital issue" which include fully entitled technologies for promoting participation and social and political inclusion in European democracies. The researcher will implement multi-lingual automated moderation, with the aim of facilitating transnational communication in multilingual contexts between subjects with different technological skills.			
8	1	DISFUCI (dal 01.10.21 DISPOC)	11/D2	M-PED/03	Educational Science	The following proposal is consistent with Action IV.6 - Research contracts on Green topics - DM1062/2021. The research project is promoted in collaboration with Assoservizi S.r.l., a company that works in the field of training, guidance, and business services. The project aims to: a) analyze national and international literature focused on the subject of transformative methodologies for environmental sustainability education; (b) support individuals and organizations experimenting transformative methodologies; (c) develop a massive open course for the online training dedicated to organizational roles (e.g. sustainability managers) which can act as change agents within the organizations in which they work; (d) evaluate the results of the training and, where possible, the impact on the organization involved.	06/12/2021	12	English (good)
9	1	DISPI	13/A2	SECS-P/02	Economics	The research will examine the effects that the European Green Deal and the related carbon pricing policy may have on competitiveness and income distribution to assess the social acceptability of the European policies and their capacity to achieve climate neutrality by 2050. The rapid increase of carbon price recently observed in Europe can accelerate the ecological transition but it may also cause regressive effects within the population and a competitiveness loss for regulated firms inducing them to shift their production abroad. The research intends to deepen the analysis of these aspects enriching existing studies through innovative instruments of both theoretical and empirical analysis, focused on the specific case of the most recent European policies.	06/12/2021	12	English (excellent)
10	1	DMMS	05/H2	BIO/17	Biological sciences	The project is part of the activities aimed at extending the knowledge useful for reducing the impact of climate change on health. The protective effects of exercise and the use of compounds with antioxidant action in preventing damage caused by exposure to high temperatures will be evaluated. The research will be carried out in close collaboration with the Innbiotec company which will provide support for the production and analysis of compounds with antioxidant action. The results will be object of scientific dissemination through publications in indexed journals and participation in national and international scientific congresses. The objectives of the research will include teaching activities in the BIO/17 17, including seminars and student supervision in managing data collection of and writing of degree and doctoral theses, for a total of 150 hours/year.	10/12/2021	12	English (good)
11	1	DMMS	05/F1	BIO/13 (part-time)	Biological sciences	Evaluation of the presence of endocrine disruptors in organic matrices (seminal fluid, follicular fluid and cells, amniotic fluid, serum, urine) by toxicological, chromatographic and spectroscopic assays. The identification of short-term biomarkers that correlate with irreversible long-term effects, such as fertility impact/damage, will clarify their biological basis. Bio-indicators of	10/12/2021	12	English (good)



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						environmental pressure from pollution are measurable and suggest solutions to reduce the impact of the environment on fertility. Teaching, integrative teaching and student service activities in SSD BIO/13, CLM Biotechnologies of Human Reproduction, will focus on the effects of environmental pollution on human gametes and on the development of embryos resulting from assisted reproduction techniques.			
12	1	DBM	05/E1	BIO/10	Biological Sciences	<p>Aim of the project is defining the molecular basis of directional cancer cell migration in different cancer cells, with a particular focus on the role exerted by HSPG and their many protein ligands, using the tetra-branched peptide NT4, which selectively binds human cancer tissues and cells thanks to its specific binding to sulfated GAGs. The information obtained will be used for testing NT4 and HSPG-targeted ligands as potential anti-metastatic drugs. The final goals of the project are:</p> <ul style="list-style-type: none"> - testing HSPGs as potential targets for interfering with migration and invasiveness of cancer cells - testing HSPG targeted ligands, which may work as inhibitors of cancer cell migration and invasiveness, eventually interfering with development of cancer metastasis. <p>The project will be organized in two main work packages:</p> <ul style="list-style-type: none"> - WP1: using the NT4 peptide as a tool to enlighten the role of HSPG in migration and invasiveness of cancer cells; - WP2: developing sulfated GAGs-targeting peptide ligands for cancer imaging and therapy, including inhibition of metastasis 	10/12/2021	12	English (good)
13	1	DBM	06/A1	MED/03	Medical Sciences	<p>The research activity will focus on scientific innovation and digital technologies issues that are part of the National Strategy of Intelligent Specialization and, in particular, it is part of the strategic sector Health, in the context of the Technological Priorities Big Data, Open data and Analytics. The aim is to develop new technological models based on machine learning and Big Data with attention to the areas of research related to complex problems and the formation of transversal skills functional both to research and teaching activities and to insertion into the world of work by integrating higher education, research and business structures. In fact, the activity includes an internship at SienaGenTest srl with the aim of providing a training opportunity in applicative contexts and favouring the qualification of human capital and placement in a sustainable path over time.</p>	10/12/2021	12	English (good)
14	1	DBM	06/N1	MED/46	Biological Sciences	<p>Arthropod specimens will be collected and classified accordingly to species, sex and area of origin. The collected specimens will be subjected to virological investigations for detecting the main pathogens associated to human diseases present throughout the Tuscany region. In case of positive results, viral isolation and subsequent characterization using classical techniques and whole-genome sequencing method will be carried out. The presence of mutations associated to known or emerging viral variants will be evaluated. The effect of these mutations on virulence, in terms of viral fitness and pathogenicity, will be also evaluated. The virulence factors of the main arboviruses will be studied in depth in order to understand what may be the different</p>	10/12/2021	12	English (good)



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						mechanisms that determine the onset of the disease. The virucidal activity of blue LED light (Emoled®) will be tested on collected viral isolates and/or on reference strains. The use of blue LED lamps will be evaluated as disinfection system in limited environments against circulating viruses.			
15	1	DBM	05/I2	BIO/19	Biological Sciences	The research topics are part of the GREEN theme of the green transition and concern the study of microbial bioremediation and alternative compounds to antibiotics. The integrative and conjugative elements (ICE) encode catabolic pathways, bacteriocines and stress response systems. The engineering of ICEs, containing catabolic pathways, capable of easily spreading within the resident microbial community of a contaminated site allows the bioremediation of contaminated environments aimed at the conservation of the ecosystem and biodiversity. The engineering of ICEs, encoding bacteriocines and regulation systems (SOS response), allows the optimization of probiotic microbes by introducing antimicrobials alternative to antibiotics. The formulation of the products will take place at the laboratories of Dicofarm. The lecturer's teaching activities will be related to the subjects of this research project.	10/12/2021	12	English (good)
16	1	DSMCN	06/D2	MED/49 (Relief activities)	Medical Sciences	The present research project aims at investigating the relationship between diet, environment and diabetes onset, taking into account 2 different patient cohorts: a) Historical cohort: namely diabetic patients from Tuscany south-east area Siena, Arezzo, Grosseto provinces) regularly followed-up at Diabetes Unit at Siena Policlinico Hospital. Such patients will be analyzed in terms of clinical, demographic and biochemical parameters together with plasma levels of a set of endocrine disruptors (EDs). In addition, in each subject, circulating microRNA signature will be analyzed by NGS high-throughput platform, for candidate biomarker discovery. b) Prospective cohort: New onset diabetes cases will be enrolled and regularly followed-up for disease progression. These patients will be evaluated as the previous cohort. In addition, a municipality-level map of new onset cases will be set-up, in which the disease incidence will be correlated with a series of environmental and urban characteristics.	13/12/2021	12	English (good)
17	1	DSMCN	06/C1	MED/18 (Relief activities)	Medical Sciences	The research activity is oriented to the design and development of new technologies and robotic implementation systems applied to general surgery and surgical oncology, in order to apply, with increasing adherence, the concept of "precision and tailored medicine" through the improvement of tactile feedback of robotic surgeons. Close interdisciplinary collaboration with computer engineering projects is envisaged to implement knowledge and practical actions, as well as collaboration with foreign business systems in the field of technological innovation. The teaching, supplementary teaching and service to students must be carried out in relation to the related research topics.	13/12/2021	12	English (excellent)
18	1	DSMCN	06/N1	MED/46	Medical sciences	The research activity will evaluate the impact of climate change in patients with respiratory diseases. For this purpose, a collection of clinical and laboratory data obtained by flow cytometry, multiplex assay and spectrophotometry, will be analyzed from patients living in Siena and in extra-urban areas.	13/12/2021	20	English (excellent)



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						Teaching activities will focus on green theme and climate change impact on obstructive pulmonary diseases, such as asthma and COPD, secondary to environmental exposure. The development of new professional skills will be obtained also thanks to the collaboration with the industrial companies involved in the project. Professionalism with an adequate profile will be guaranteed.			
19	1	DSV	07/D1	AGR/11	Agricultural sciences	The researcher will work on biodiversity and the reduction of the impact of climate change, with a specific focus on two quality agroecosystems in the area, vineyards and olive groves, in collaboration with a local winery. Biodiversity (e.g. edaphic communities, invasive species, phytophagous and entomophagous species, parasitoids in primis) will be studied in relation to environmental parameters and agricultural practices to evaluate their impact. Final aim is the possibility to predict the effects of climate change on the possibility to do quality agriculture in the region and to identify risk factors beforehand to allow for a prompt and focused response. Primary teaching duties will be in the vocational degree in Agribusiness, where biological, economic and environmental competences are compenetrated to promote sustainable agriculture.	13/12/2021	12	English (good)
20	1	DSV	07/E1	AGR/13	Agricultural sciences	The research activity aims to investigate the potential of biochar in interacting with other organic soil conditioners in increasing the fertility of soils with different characteristics and criticality in which there is the cultivation of the vine. The experimentation foresees the strong involvement of farms, where biofertilizers based on biochar and other organic soil conditioners will be used. A consolidated relationship of experimentation and collaboration already exists with Bio-Esperia srl. Teaching activities will also be carried out for the training of students of the University of Siena on issues regarding the sustainable soil management and agriculture in general.	13/12/2021	30	English (good)
21	1	DIISM	09/F2	ING-INF/03	Engineering	The first research topic will consist in the definition of 5G slices aimed at providing services in the vertical market of energy towards the realization of smart grids, exploiting the possibilities offered by the virtualization technologies SDN/NFV. A second topic will refer to the problem of energetic compatibility of the ICT sector. To this regard, the research will focus on the problem of energy efficiency optimization of next generation wireless networks, referring in particular to 5G and its evolutions. This goal will be achieved leveraging analytical tools for traffic and the network status prediction for a joint optimization of energy consumption and network performance.	15/12/2021	12	English (good)
22	1	DIISM	09/G1	ING-INF/04	Engineering	The proposed research is focused on smart grids and their role in providing decarbonization of production and management of energy systems. In particular, it will concern the design and the implementation of optimal control laws which enable the efficient integration of renewables into microgrids. The main considered applications will be: - heating, ventilation and air conditioning of smart buildings; - recharge of electric vehicles. Specifications and technical constraints of the analyzed methods will be characterized in collaboration with the	15/12/2021	12	English (good)



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						industrial partner. The importance of smart resource management of microgrids to reduce harmful emissions will be the topic of master seminars. In such lectures, the developed activities and the obtained results will be described and discussed.			
23	1	DIISM	09/E4	ING-INF/07	Engineering	<p>The control and optimization of the combustion process are crucial not only for the reliability and efficiency of energy production plants, but also for containing their environmental impact in terms of carbon dioxide (CO₂) and other polluting/toxic chemical compounds produced during combustion, such as carbon monoxide (CO) or nitrogen oxides (NO_x).</p> <p>The objective of the RTDA will be the study and development of technologies and measurement systems that allow to obtain information on the combustion characteristics in gas turbines, exploiting the information on the composition of the exhaust gases and on the density of the ions produced by the flame in the combustion chamber in order to provide tools for monitoring/controlling combustion parameters and maintaining combustion efficiency over time.</p>	15/12/2021	15	English (good)
24	1	DIISM	09/G1	ING-INF/04	Engineering	<p>The study has a twofold aim: the development of a support system for the surgeon and the improvement of surgical operations in terms of safety and performance. In the first case, the surgeon's biosignals will be monitored to identify physical/emotional states that could affect the outcome of the operation. Haptic stimuli will be designed and tested to improve both these states and the surgeon's ergonomics during the surgery. The second area of interest concerns the adoption of haptic interfaces to provide additional information about the surgery and the robot. Information currently not available (eg., the interaction force between robot and patient) will be provided to the doctor via haptic stimuli. In addition, the integration of medical robots with haptic systems will be studied to guide the surgeon on the basis of information obtained through other techniques (eg photodynamics).</p>	15/12/2021	12	English (excellent)
25	1	DSFTA	05/C1	BIO/07	Environmental Science	<p>Green transition themes (Axis IV 6. "Research contracts on Green themes - REACT-EU): reduction of the use of pesticides in agricultural crops, conservation of the ecosystem and biodiversity. Research, teaching, supplementary teaching and support activities for students will be carried out in these areas. The research concerns the ecotoxicological evaluation of the impacts of pesticides on the populations of farmed and wild apidae and the definition of bee-friendly agroecological strategies for the creation of a virtuous eco-sustainable circuit that improves the health status of pollinating insects, the quality and the productivity of the agricultural and beekeeping sector. Collaboration with companies for the definition of bee-friendly ecological strategies and scientific support in the selection of plant protection products that do not have toxicological impacts on pollinators.</p>	15/12/2021	12	English (good)
26	1	DSFTA	02/A1	FIS/01	Physics	<p>Green transition themes (Axis IV 6. "research contracts on Green Themes – React-EU): the research activities will allow a large scientific and economic benefits, particularly in the frame of the strategic objective of mitigation of the climate change. The research activity is focused on graphene-based Hydrogen storage. The research goal is to increase the</p>	15/12/2021	12	English (good)



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						storage efficiency by functionalizing graphene with heteroatoms (usually transition metals) or suitable molecules. In particular, the graphene organic functionalization will be explored. Indeed, organic molecules can be easily specialized to express active functions including the interaction with hydrogen in both atomic and molecular form. Moreover, the graphene hetero-structure is suited to be stacked in three-dimensional form, which is a mandatory requirement toward real life devices, related to the energy from fuel cells and hydrogen mobility. On this research topic the group has active international collaborations, such as with the Institute of Sensors and Actuator Systems, TU Wien and with EMAT, University of Antwerpen, Belgium.			
27	1	DBCf	03/A2	CHIM/02	Chemistry	Study of agricultural and agro-industrial production cycles to identify and valorise bioactive components in by-products. These data will be used for the lab-scale development of integrated "Green" prototype processes, in which the different residues will be treated, to maximize the production yield of new ingredients with high added value, for the pharmaceutical, cosmetic and food industries, towards a green transition. The possibilities of recovering energy from the residuals will be evaluated. The study will also have the purpose of identifying the integrated model of a second generation "Biorefinery" aimed to reducing environmental impacts. The overall annual commitment for carrying out teaching activities, supplementary teaching and student service is 350 hours full-time in "Green" areas.	15/12/2021	12	English (good)
28	1	DBCf	05/E1	BIO/10	Biological sciences	With a view to circular bioeconomy, the research activity will focus on the development of green and sustainable processes for the prototyping of bio-based products with high added-value (nutraceuticals, functional foods, supplements, biophytostimulants, etc.) from agro-forestry and marine biological waste raw material. A strong boost to the development of these products will be given by the detailed knowledge of their chemical and biochemical composition and their biological activity at the cellular and molecular level, obtained through multidisciplinary experimental approaches (biochemistry, OMICS, and bioinformatics). The involvement of students (undergraduates, fellows, PhDs) in research activities will have a valuable impact in the training of a new generation of operators in the circular bio-economy. The constant collaboration with local companies will prompt the birth of a new industry of the circular bioeconomy with the transformation of waste into the production of new secondary and tertiary products with high added-value.	15/12/2021	25	English (good)
29	1	DBCf	05/E1	BIO/10	Biological sciences	Data analysis integration systems based on advanced big data and Artificial Intelligence (AI) solutions for clinical and pre-clinical studies, already tested in prototype form on a database defined ApreciseKUre that integrates heterogeneous information of patients with AKU. The project aims to evolve the PCC and demonstrate its functionality and effectiveness by specializing and configuring it to support an integrated approach to AKU. The experimentation will be oriented to study all the factors that can determine a better diagnosis and treatment of the disease, including issues related to gender medicine, increasingly crucial in the management of	15/12/2021	12	English (good)



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						metabolic diseases. Important objective is to ensure care effectiveness, respecting the efficiency and sustainability of the health service.			
30	1	DSSBC	10/B1	L-ART/04	Arts	The research activity is aimed at identifying key figures and processes that have led to today's methodology of art-historical knowledge functional to the proper protection and enhancement of artistic heritage as an element of national identity. The RTDA will carry out research activities in the field of the history of the art, museology and public and private collecting between the late 19th century and the present day, identifying key figures, pivotal moments and processes that have led to the contemporary methodology of analysis and valorisation of the artistic heritage. The first phase is dedicated to the selection of key figures and processes, followed by a second phase of analysis in relation to the different contexts and the importance that these figures and processes have had in the making of today's historical-critical methodology. The final phase involves the verification of the results obtained and their publication in the appropriate national and international scientific forums.	17/12/2021	12	English (good)
31	1	DSSBC	10/A1	L-ANT/10	Other	Developing the public archaeology component of the UNISI project – "Uomini e Cose a Vignale", through three main phases. 1. Doing extensive research on the methodologies and operational practices adopted in other similar projects, currently running in Italy and Europe. 2. Creating a theoretical-methodological model of social use of a micro-territory archaeological heritage by the local community, according to the principles of the Faro Convention, making it scalable and replicable in different realities. 3. Producing an integrated project of participatory archaeology shared with the reference community (political decision makers, schools, cultural associations, local economic system), to build a "green"enhancement – that is respectful of places, sustainable over time, based on local micro-economies – of the archaeological heritage and historical landscape of the reference area.	17/12/2021	12	English (good)
32	1	DISFUCI (dal 01.10.21 DFCLAM)	10/G1	L-LIN/02	Language sciences	VIVAVOCE adds value to Intangible Cultural Heritage (ICH) through the recovery and safeguard of voices and memories, starting from the Teatro Povero experience based in the Orcia Valley, the latter being an example of sustainable management of landscape, urban development, ecology, and culture. ICH reinforces the awareness of local traditions, and contributes to developing new ways of enjoying the local heritage. VIVAVOCE aims at surveying and analysing oral archives; it will create intangible paths, including educational paths, ranging from ancient crafts, to circular economy and traditional medicine. It also aims at enhancing the technological tools which are necessary to allow a participatory approach in support of heritage communities; finally, it aims at improving the enjoyment of ICH through digital infrastructures (given the needs of a changed mobility after the pandemic crisis).	17/12/2021	12	English (good)



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33	1	DFCLAM	10/F4	L-FIL-LET/14	Literature	<p>Since the introduction of Personal Computers, the methods of transmitting memories – that suffer today of bits’ obsolescence – have undergone significant changes. The problem also concerns literary heritage, and the BAUMS displays one of the most prominent cases: the Fortini archive hosts more than 50 floppy disks, which also contain unpublished material, whose contents must be securely preserved; some materials from Fortini are still stored on obsolete support, such as audio cassettes.</p> <p>How is it possible to ensure the integrity of these new archives? How to reconstruct the “digital” work of a writer, which includes nowadays activities on the Web, and in particular on social networks? And, finally, how can we acquire, make accessible, and study the enormous amount of available information, which is unprecedented in other ages? The project aims at answering these questions.</p>	17/12/2021	12	English (excellent)
34	1	DFCLAM	10/D3	L-FIL-LET/04	Literature	<p>The researcher will investigate in depth those aspects of the Aeneid which bear significant relations to Aeneas’ route in the Mediterranean.</p> <p>In particular, the researcher will:</p> <ul style="list-style-type: none"> - locate and examine the landing places of Aeneas’ route as identified or perceived in the ancient sources and in Virgil, as well as in the light of recent archeological findings - assess Virgil’s geographic knowledge - chart Virgilian vocabulary referring to landscape and environment - explore the presence and significance in modern and contemporary literatures of the places visited by Aeneas during his wanderings - analyse in what ways and to what extent environmental themes are linked to human relationships, especially when different ethnic groups settled in or coming from different geographic contexts come into contact - collect the research results in a monograph study by the end of the three-year period. 	17/12/2021	12	English (excellent)

2. The recruitment of researchers must imperatively take place by 1 February 2022.

3. Candidates must produce, by 31 December 2021, all the documentation required by the Administration for the verification of the qualifications and CVs declared in the application. Otherwise, the Administration will proceed with the scrolling of the ranking.

4. Hours of classroom teaching each academic year: up to a maximum of 60 hours per academic year.

5. University of Siena reserves the right to offer all of the 34 three-year contracts, or a minor number of them, in relation to the admissibility of contracts, to be verified by the Minister for University and Research (MUR), according to Ministerial Decree no. 1062/2021. The positions that will be declared inadmissible will be listed in a specific University of Siena’s notice, and no contract will be stipulated. The notice of inadmissibility will be published, with the validity of notification, on the online Bulletin Board (*Albo on line*).

Art. 2 – REQUIREMENTS FOR ADMISSION TO THE PROCEDURE

1. Applications are eligible if holding a PhD or equivalent completed in Italy or abroad, or diploma of medical specialization in the relevant area(s) and registration with the Order of surgeons and dentists (*for the sectors concerned). In this case the PhD or equivalent qualification constitutes an advantage.



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2. Applicants are eligible if EU or non-EU citizens meeting the admission requirements stated above.

3. **Concerning qualifications obtained abroad, it is necessary to attach to the application, alternatively, the penalty is exclusion:**

- **the above-mentioned academic equivalence of the educational qualification in accordance with art 38 of Legislative Decree no 165/2001;**
- **or the certificate of equipollence with the PhD title in accordance with Italian University regulations issued pursuant to Paragraph 74 of Presidential Decree 382/1980;**
- **or the application for the request of the equivalence certificate and the relative receipt of submission within the deadline for submitting the applications referred to in this notice.**

In the latter case, applicants will be provisionally admitted to the comparative selection, it being understood that the academic equivalence certificate must be necessarily be produced by the winner within the 31st of December 2021 in order to proceed with the recruitment, which must peremptorily take place within the deadline provided for in the previous art.1 co. 3.

Further information on the equivalence request procedure please consult the following website¹:

<http://www.funzionepubblica.gov.it/strumenti-e-controlli/modulistica>

<https://www.miur.gov.it/equivalenza-ai-fini-professionali>

4. Candidates must be in possession of the requirements for admission to the selection procedure by the deadline of this call.

5. **All candidates are admitted to the selection procedure conditionally, reserving the right to verify that they meet the requirements for admission to the selection procedure.** The administration can, at any time and with justifiable reason, exclude candidates who fail to meet the selection requirements.

6. Applications cannot be accepted from the following people: retired or currently employed full or associate University professors or researchers; those who have a relationship or affinity up to and including the fourth degree with a professor belonging to the Department or the structure proposing the activation of the contract, or with the Rector, the General Manager or a member of the University Council.

7. Furthermore, applications cannot be accepted from those who have been awarded of a Post-Doc or PhD research fellowship (in accordance with Article 22, Law 240/2010 – *Assegno di ricerca*), or who have been employed as a Junior/Senior Research Associate (in accordance with Article 24, Law 240/2010 – *Ricercatore a tempo determinato*), at Italian Universities or at the Institutions stated in Article 22 comma 2 Law 240/2010, if the sum of the duration of the research fellowship and the duration of the contract as a Junior/Senior Research Associate and the duration of the position that is the subject of this selection procedure is more than 12 years (even if not continuous).

The calculation of the above mentioned sum (12 years) does not include maternity leave or sick leave used during research fellowships awarded in accordance with Article 22 Law 240/2010.

8. It's necessary to pay 10€, within the term stated in art. 3 co. 1, as a contribution to cover the cost of the Recruitment Process, to complete the application. The payment must be made through PagoPA, following the indications of the platform while the application is being completed. It is recommended to complete and send the application in advance of the deadline. The contribution paid will not be refunded, even in

¹ Interested parties are invited to check for any updates to the web pages.



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case of withdrawal of the application or exclusion or inadmissibility of the position (see art. 1, clause 5 of this notice).

Art. 3 - PRESENTATION OF THE APPLICATION

1. Applications for admission to the procedures and the documents indicated below, **in pdf (size limit: 30 MB for every single PDF file)**, must be lodged by using the application <https://pica.cineca.it/unisi>. The application must be submitted peremptorily **starting from 11 October 2021 and until 25 October 2021**.

For technical problems concerning the application PICA please contact unisi@cineca.it

2. The applicant will receive an e-mail after the successful submission of the application, including a confirmation and an ID number. The applicant will be able to check her/his successful submission and its recording in the register by logging into PICA.

3. The University administration declines any responsibility for non-receipt of applications due to third party liability.

4. The following documents **must be** included with the application:

- a signed and dated **curriculum vitae** containing a list of the candidate's qualifications, scientific publications and other activities.
- the **publications** the candidate intends to submit for evaluation by the Board (maximum number indicated in art. 1) and a **signed list of the publications** submitted; in case of discrepancy between the publication files and the list, those presented in the signed list will be evaluated by the Commission; if the signed list of publications to be submitted for evaluation, attached to the application, contains a greater number than the requested publications, only the first ones will be evaluated (in the number indicated in article 1 of the call for applications) in order of presentation;
- copy of a valid identity document.

5. The applicant will have to declare pursuant to articles 46 and 47 of Presidential Decree no. 445/2000 certifying the truth of all data contained in the application.

The applicant furthermore declare that:

- to have no criminal convictions;
- to have no criminal proceedings in progress;
- to be registered on the electoral roll;
- to enjoy civil and political rights in state of citizenship/origin;
- to have not been dismissed or released from a post with the Public Administration or for whom State employment has lapsed pursuant to Presidential Decree 3/1957;
- to be no retired or currently employed full or associate University professors or researchers;
- to do not have a relationship or affinity up to and including the fourth degree with a professor belonging to the Department or the structure proposing the activation of the contract, or with the Rector, the General Manager or a member of the University Council;
- to be perfectly aware that the Commission will be appointed by decree of the Rector, published, with the validity of notification, on the online Bulletin Board ("Albo on line");



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- to be perfectly aware that the criteria established by the Commission and the list of eligible applicants, identified by “ID number”, will be published, with the validity of notification, on the online Bulletin Board (*Albo on line*);
- to be perfectly aware that the date of the interview (in video conferencing if required), is indicated in art. 1 of this announcement, with the validity of notification; furthermore information regarding the time and location (including in video conferencing) will be published, with the validity of notification, on the online Bulletin Board (*Albo on line*); the absence of the candidate (including in video conferencing) will be considered as a renunciation of the selection, whatever the cause;
- to be perfectly aware that the Decree of Approval (*Approvazione atti*) will be published, with the validity of notification, on the online Bulletin Board (*Albo on line*);
- to be perfectly aware that every change of residence and/or contact number and/or e-mail address must be promptly notified to the Planning and Recruiting Office (*Ufficio programmazione ruoli e reclutamento*);
- to be perfectly aware that within seven days from the day following the publication of the Commission on the online Bulletin Board (*Albo on line*), candidates can object to the members, indicating the reasons;
- to be perfectly aware that the applicant must submit, by 31 December 2021, the documentation required by the Administration in order to verify possession of the qualifications and curriculum declared in the application. Otherwise, the Administration will proceed, as by official rule, will result in the official with scrolling of the ranking;
- to be perfectly aware that if the signed list of publications to be submitted for evaluation, attached to the application, contains a greater number than the requested publications, only the first ones will be evaluated (in the number indicated in article 1 of the call for applications) in order of presentation;
- to be perfectly aware that University of Siena reserves the right to offer a three-year contract in relation to the admissibility of it, to be verified by the Minister for University and Research (MUR), according to Ministerial Decree no. 1062/2021. If the position is declared inadmissible, no contract will be stipulated. The notice of inadmissibility will be published, with the validity of notification, on the online Bulletin Board (*Albo on line*).

It is important to highlight that non-Italian applicants will have to declare to have adequate knowledge of the Italian language.

6. Publications must be submitted in the original language which, if other than Italian, English, French, German and Spanish, must be translated into one of said languages. The translated texts must be submitted as a certified true typed copy as required by current regulations.

7. Documents written in a foreign language other than Italian, English, French, German and Spanish, must be accompanied by an Italian translation, certified as true to the original text by the competent diplomatic or consular representation, or by an official translator.



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Art. 4 - EXAMINING COMMISSION

1. The Examining Commission is composed of three full professors belonging to the above-mentioned academic discipline or to an academic discipline in the same above-mentioned academic recruitment field or group of academic recruitment fields, appointed by the Board of the Department.
2. Prior to the start of the selection, the candidate must declare under his/her own responsibility, pursuant to article 7 of the University Code of Ethics, that he/she does not have a relationship of consanguinity or affinity up to and including the fourth degree with any member of the Committee, and that the Committee does not include his/her spouse or partner or any persons with whom he/she has business relations.
3. Meetings of the Committee, included the interview, may be held in video conferencing, if necessary, due to the COVID-19 emergency.

Art. 5 - EVALUATION OF QUALIFICATIONS, PUBLIC INTERVIEW AND ORAL EXAM

1. The selection is made by through a preliminary evaluation of candidates and a reasoned analytical judgment of their academic qualifications, curriculum and scientific productivity, including their doctoral thesis, if applicable, based on the criteria and parameters specified in University Ministerial Decree 243 dated 25.05.2011.
2. Following the preliminary evaluation, the top 10 to 20 per cent of the most merit-worthy candidates, and in any case no less than six, will be admitted to a public interview with the Commission concerning their qualifications and scientific work. If only six or less candidates apply, all of them will be admitted to the interview. The interview may be held in video conferencing, if necessary, due to the COVID-19 emergency.
3. Should the candidates be foreign nationals, they must demonstrate an adequate knowledge of the Italian language during the interview.
4. Following the interview, a score is given to the qualifications and each publication presented by the candidates who have passed the oral exam, according to criteria established in advance by the Commission itself.
5. The Commission writes up a report at the end of each individual meeting.
6. The interview will take place on the day established in art. 1 of this announcement. Further information regarding the time and location (including in video conferencing) will be published, with the validity of notification, on the online Bulletin Board (Albo on line).
7. Candidates must bring their valid identity document.
8. EU nationals must bring their passport or identity document issued by their country of origin. Candidates from non-EU countries must only bring their passport. The absence of the candidate from the tests will be considered as a renunciation of the selection, whatever the cause.

Art. 6 - RANKING LIST AND PROPOSAL OF EMPLOYMENT

Upon completion of the selection procedure, the Commission determines the winner by drawing up a ranking list of eligible candidates. The waiting list will only remain open until the Start date for the selected Junior Research Associate (see art. 1, clause 3, concerning the due term to produce all the documentation required, as well as the scrolling of the ranking).

ART. 7 - CONTRACT AND ACTIVITIES

1. Subject to the admissibility of the contract (see art. 1, clause 5), the successful candidate will be offered a full time three-year contract, or a part time three-year contract where specified. The contract can be



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renewed only once for a two-year period, subject to the availability of financial resources as well as a positive evaluation of the teaching and research carried out. This evaluation will be made in accordance with art. 10 university's regulations concerning fixed-term junior research associates.

2. The University will pay for insurance against accidents and third party liability.

3. The total annual commitment to teaching, supplementary teaching and student support is equivalent to 350 hours; for the purposes of reporting on the research project, the research, supplementary teaching and student support together are figuratively equal to 1500 each year. The researcher employed according to this notice will have to perform on time any activity, or draw up on time any document required for the purposes of evaluations and monitoring.

4. In the case of public funding, the contract will be terminated should the funding not be received. The trial period lasts three months.

ART. 8 - INCOMPATIBILITY AND OTHER COMMITMENTS

The research contract is not compatible with the following:

- any other contract of employment with a public or private body;
- research grants from other Universities;
- teaching contracts regulated by the relevant provisions in force;
- doctoral or post-doctoral research grants or, in general, any grant or scholarship for any purpose awarded by the University or any third party.

Art. 9 - PUBLICATION

This call and the summary in English are published on the University's Albo on line, on the web page at the following address:

<https://www.unisi.it/ateneo/concorsi-gare-e-appalti/concorsi-professori-e-ricercatori/ricercatori-tempo-determinato>

The summary in Italian and in English are also published on the website of the Ministry for University and Research (<https://bandi.miur.it/>) and on the European Union portal (<http://ec.europa.eu/euraxess/>).

Date digital signature

The Rector
Francesco Frati

Endorsement
The General Director
Emanuele Fidora

Endorsement
Procedure manager
Clara Pluchino

Endorsement
Procedure manager
Clara Pluchino

Endorsement
Ufficio Programmazione ruoli e reclutamento manager
Rossana Cimato