

**DOMANDE CONCORSO PUBBLICO PER TITOLI ED ESAMI PER UN POSTO PER IL PROFILO PROFESSIONALE DI TECNOLOGO DI III LIVELLO PROFESSIONALE CON CONTRATTO DI LAVORO A TEMPO DETERMINATO DELLA DURATA DI 18 MESI PER ATTIVITÀ GESTIONALE IN AMBITO FINANZA E AMMINISTRAZIONE DI INFRASTRUTTURE DI RICERCA - PROVA SCRITTA - BUSTA 1**

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- 1) Il candidato/La candidata illustri la struttura ideale di un regolamento di amministrazione e finanza di un'infrastruttura di ricerca partecipata da enti di diverse nazionalità identificando i punti di maggiore importanza e le relative criticità.
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- 2) Descrivere sinteticamente vantaggi e rischi derivanti dall'utilizzo di una piattaforma di collaborazione "in cloud".
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- 3) Il candidato/la candidata sintetizzi e commenti in lingua inglese le azioni richieste dal seguente brano tratto dal grant agreement di ET-PP: 'A primary objective of ET-PP is to prepare a legal entity for the ET RI. The preferred implementation has to be determined and may be that of an Intergovernmental Organization (IGO) based upon a treaty-strength international Convention as exemplified by CERN or the recently formed SKA IGO. In this model, governments sign the fixed Convention in a durable and powerful commitment, like CERN and SKA. Alternatively, a European Research Infrastructure Consortium (ERIC) model can be considered in which each partner deposits with the European Commission a letter of commitment to the agreed work of the consortium, signed by an appropriate government official. Another option that will be considered is an International non-profit member company such as a Delaware LLC, German GmbH, Dutch Stichting, or a Belgian Association International sans but Lucrative [AISBL]. Governments can be members of the corporation and can make written company formation documents and contribution agreements that are legally binding and internationally recognized. These can have independent and appropriate procurement and employment systems and are fully responsible for all financial matters.'

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- 1) Descriva sinteticamente il candidato/la candidata le tappe necessarie alla costituzione di una ERIC: base giuridica, criteri essenziali e grado di coinvolgimento delle istituzioni UE.
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- 2) Descrivere il funzionamento della funzione VLOOKUP in Excel.
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- 3) Il candidato/la candidata sintetizzi e commenti in lingua inglese le azioni richieste dal seguente brano tratto dal grant agreement di ET-PP: 'To develop the financial architecture for ET, it is important to establish commonly accepted and well-defined guidelines for the planning, monitoring and reviewing of costs, the provisioning of in-kind contribution and the financing and evaluation of R&D activities that will be run during this preparatory phase. It's also important to agree rules to measure and recognize effort and contribution provided by the partners through national and EU funded projects. These internal rules will be set and described in handbooks, one for the design and construction phase and one for the operating phase and, at the end, set in a signature-ready contract to fund and build ET. A financial module of the project management information system (PMIS) will be implemented to set up a living model for scheduling and budgeting. According to modern industry standards a "rolling wave" approach will be followed in funding and expenses management to progressively improve the financial planning. Cost risks in procurement will be identified and measures will be developed to mitigate these risks in close collaboration with the governance and project management working groups. Key indicators will be identified to monitor project execution. The financial plan will be developed, at different levels, according to the possible governance and legal status. Then, different scenarios will be elaborated to run sensibility analysis to cost and time variability and different procurement methodology. The results will help to set the right quantity of contingencies and "when and how" they can be used. WP3 in charge of the financial architecture, in close coordination with WP2, will be responsible for preparing, carrying out and following up biannual meetings during the ET preparatory phase. Annual progress reports will be shared with all involved funding agencies and ministries as well as the Physical Sciences and Engineering Strategic Working Group of ESFRI. As already mentioned, the ET Finance Committee will be established.'

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- 1) Il candidato / La candidata descriva i tratti principali dei contributi in-kind per la realizzazione ed il funzionamento di un'infrastruttura di ricerca evidenziandone le problematiche di valutazione, aggiornamento valori e accettazione.
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- 2) Descrivere come funziona il "Versioning" in un repository cloud.
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- 3) Il candidato/la candidata sintetizzi e commenti in lingua inglese l'evoluzione del ruolo delle infrastrutture di ricerca sulla base del seguente testo tratto dalla Roadmap ESFRI 2021: "Pan-European RIs have become a pillar of the ERA. Both the ERA concept and the RIs ecosystem vision intend to serve and interconnect research and researchers throughout Europe and globally. Investments in RIs have been seen mainly as support to research as they meet the demand of the scientific community for state-of-the-art resources, services and data. However, they are also centres of knowledge transfer to the society and the economy, as well as play an important role in training of researchers and fostering science literacy. RIs have now evolved into an interconnected and interoperable ecosystem, which goes beyond the area of the R&I domain. RIs are kernels of regional development in many domains of economy, they have significant impact on the cultural and societal environment of the region where they are built and show strong outreach to many sectoral policies and agendas."

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