




Announcement of available position	Selection code: 355_CRI_DMS
Type of position and number of positions vacant	<b>Fourth level Technologist (T4) in the field of development and administration of data management systems - recruiting for the formation of a ranking for temporary employee contract.</b>
Organisational structure and manager for the position	Research and Innovation Centre – Unit of Computational Biology.
Specific requirements	<ul style="list-style-type: none"> <li>- Master degree (or equivalent <math>\geq 4</math> years degree) in Computer Science, Mathematics, Physics, Engineering, Data Science, Computational Biology, or equivalent;</li> <li>- Knowledge of database management systems, both SQL and NoSQL based;</li> <li>- Knowledge of a programming language such as Python, C/C++, Java;</li> <li>- Knowledge of English (minimum level B2), evaluated during the interview.</li> </ul>
General requirements	<ul style="list-style-type: none"> <li>- Italian citizenship with the benefit of full civil and political rights within the State of Italy, whether belonging to the Republic, or not;</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>- Citizens of European Union Member States or other States, provided they meet the following requirements: <ul style="list-style-type: none"> <li>- benefit of full civil and political rights in the country of origin or nationality (or explanation of the reasons for non-benefit);</li> <li>- possession of all the same requirements as for citizens of the Republic, with the sole exception of Italian citizenship, as detailed below.</li> </ul> </li> <li>- Having or not having been the subject of criminal convictions or applications of penalties at their own request (plea bargaining), which have been confirmed as enforceable convictions;</li> <li>- Having or not having been the subject of a conviction or any application of penalty at their own request (plea bargaining), which has not yet been confirmed as enforceable, for the offences referred to in Book 2, Title II, Chapter I of the Italian Criminal Code ("Offences committed by public officials against the public administration");</li> <li>- Having or not having been dismissed or declared disqualified from employment for having obtained employment through the production of false documents or documents that are invalid and with no possibility of remedy, or for having carried out activities incompatible with employment relationships with the Public Administration, or with entities governed by private law but under public control;</li> <li>- Having or not having exercised authoritative or negotiating powers over the Edmund Mach Foundation (Article 53 paragraph 16 ter of Legislative decree 165/2001) during the previous three years;</li> <li>- Having or not having been dismissed for justified subjective reason nor just cause, nor having had their employment relationship terminated in application of Article 32 quinquies of the Italian Criminal Code, because of failure to pass the probationary period for an employment relationship of indefinite duration and requiring the same qualifications as for this current recruitment;</li> <li>- Being in compliance with any obligations for military service;</li> </ul>

	- In the event of recruitment, being available to take service at Edmund Mach Foundation premises.
Physical suitability for the specific work	Edmund Mach Foundation will assess the specific risks connected to the work, and if necessary request a preventive medical examination, pursuant to art. 41 of Legislative Decree 81/2008, in order to ascertain the physical suitability of the employee and absence of contraindications to the work for which they are to be employed. In case of physical unsuitability or suitability with limitations, the Foundation reserves the right not to proceed with recruitment or to withdraw from the contract if it has already been entered into.
Exclusion from the recruitment process	The following may not participate in the recruitment process: temporary staff who have been employed for the Foundation in an equivalent role for 36 months.
Job description	<p>The successful candidate will work on the development of data management platforms and tools for a variety of data sources, including but not limited to in-situ observation systems based on Internet of Things (IoT) technology, remote sensing, plant phenotyping and genotyping data.</p> <p>The candidate will be expected to develop, in collaboration with the members of the Computational Biology Unit, database schema to accommodate the data, implement and manage the platform, identify and implement computational methods for data filtering and manipulation, identify and implement methods for data visualisation and extraction.</p> <p>The candidate will be involved in all steps of the life cycle of the platform, from design to technology selection and implementation. In addition, the candidate will be responsible for the population and day-by-day management of the data platform.</p>
Duties	<p>Under the supervision of the PI, the selected technologist will deal with:</p> <ul style="list-style-type: none"> <li>- Survey of input data standards and characteristics and of end user requirements;</li> <li>- Design and development of database schema;</li> <li>- Selection and implementation of technological platforms for data management;</li> <li>- Development of software tools for data management, database population and interrogation, data visualisation;</li> <li>- Design and implement algorithms for data quality control and outlier detection;</li> <li>- Population and management of the data platforms.</li> </ul>
Keywords	Data management, database, data processing, programming, web development, outlier detection, time series, algorithm development, statistical analysis, signal processing, internet of things, remote and proximal sensing data, FAIR data.
Selection process	By qualifications as expressed in Annex A ( <b>maximum 30 points</b> ) and interview ( <b>maximum 70 points</b> ). The results of the selection are based on the sum of the points awarded for the two phases of the selection process.
Subjects covered in the interview	<p>During the interview, which will be conducted in English, the following knowledge will be verified (<b>maximum 70 points</b>):</p> <ul style="list-style-type: none"> <li>- Databases and database management systems (<b>maximum 25 points</b>);</li> <li>- Web development and Python (<b>maximum 25 points</b>);</li> <li>- Statistical analysis and digital signal processing (<b>maximum 10 points</b>);</li> <li>- GEOSS platform and the Copernicus Core Services (<b>maximum 5 points</b>);</li> <li>- General organisation and activity of FEM, rights and duties of employees (<b>maximum 5 points</b>).</li> </ul> <p>In the interview, the candidate must achieve a <b>minimum score of 40/70 points</b>.</p>

<p>Assessment of qualifications</p>	<p>On the basis of the <b>information provided exclusively in the application (Annex A)</b>, FEM will select the best 15 candidates evaluated based on the following criteria (<b>maximum 30 points</b>):</p> <ul style="list-style-type: none"> <li>- Relevance of the Master thesis to the following topics: Computer science, Mathematics, Physics, Engineering (<b>maximum 5 points attributed according to the following criteria: 0 points=no match, 1.5=minimal match, 3=medium match, 5=perfect match</b>);</li> <li>- Relevance of the PhD thesis to the following topics: Computer science, Mathematics, Physics, Engineering or equivalent (<b>maximum 5 points attributed according to the relevance of the PhD thesis to the selection: 0 points=no match, 1.5=minimal match, 3=medium match, 5=perfect match</b>);</li> <li>- Scientific publications in journals with impact factor in the field of computer science, computational biology, data management and analysis, algorithm development or equivalent (<b>0,5 points per item up to maximum 5 points. The score of the individual publications will be doubled if the candidate appears as first, last or corresponding author</b>);</li> <li>- Software packages released in the public domain on public repositories such as GitHub or technical publications in the area of software development (<b>1 point per item up to maximum 5 points</b>);</li> <li>- Work experience (including doctorate) in software development, digital signal processing, database development and administration (<b>0,3 points for every month of experience up to maximum 10 points</b>).</li> </ul>
<p>Knowledge level of languages, relative to the Common European Framework (CEFR), and method of verification</p>	<p>The interview will be in English. Knowledge of English will be verified (to be checked by an interview of a technical or scientific nature) at a minimum level corresponding to B2.</p> <p><i>To understand the levels of knowledge required, consult the dedicated page on the EUROPASS website:</i></p> <p><a href="https://www.coe.int/en/web/common-european-framework-reference-languages">https://www.coe.int/en/web/common-european-framework-reference-languages</a></p> <p><b>Failure to possess a level of English corresponding to B2 will result in exclusion from the selection process.</b></p>
<p>Possession of requirements and recourse to clarification</p>	<p>The candidate must meet all the requirements and qualifications laid out, on the closing date for submitting applications as stated in the public announcement, as well as on the date of recruitment and placement. Candidates are in any case required to promptly inform the Foundation of any change in the data declared in the application for participation in the public notice.</p> <p>Failure to meet the specific and general requirements will result in exclusion from the selection process. The Foundation reserves the right to verify the above requirements and may at any time terminate the selection process for a candidate who does not meet them. Should the verification reveal inconsistencies, doubts or uncertainties, the Foundation also reserves the right to request further clarifications and/or documents to be produced, within the peremptory deadline indicated by the Foundation.</p> <p><b>The assessment of the possession of requirements and evaluation of qualifications is based exclusively on the information declared in the application form (Annex A).</b></p>
<p>Modality and deadlines for communication to candidates of the dates</p>	<p>Candidates admitted to the interview phase will be informed of the date and location via e-mail (<u>not by certified email, a.k.a. PEC</u>), sent to the contact address used to</p>

<p>and locations of the interview</p>	<p>send the curriculum and the application (Annex A), at least 10 days before the interview date.</p> <p>The interviews will be held at the Edmund Mach Foundation in San Michele all'Adige (Province of Trento, Italy) or in videoconference.</p> <p>Each admitted candidate must attend the interview, where they must present a valid photographic identification document, or if held in remote videoconferencing, the document must be presented in advance. Late arrival or failure to appear at the interview will result in exclusion from the selection process.</p>
<p>Gross annual remuneration</p>	<p>Provincial Collective Contract for Personnel of Research Foundations (<a href="https://trasparenza.fmach.it/Amministrazione-Trasparente/Personale/Contrattazione-collettiva/CCPL-Personale-Fondazioni-di-Ricerca">https://trasparenza.fmach.it/Amministrazione-Trasparente/Personale/Contrattazione-collettiva/CCPL-Personale-Fondazioni-di-Ricerca</a>), Fourth level , current gross remuneration of Euro 36.075,75, including 13th and 14th month's pay.</p>
<p>Deadline for presentation of applications and recruitment process end date.</p>	<p>Applications must <b>arrive by and no later than 23:59 CET</b> (the date and time of receipt shown in the electronic mail account of the Foundation shall be valid) <b>on February 1, 2024</b>.</p> <p>The recruitment procedure will terminate at the latest by August 1, 2024.</p>
<p>How to present applications</p>	<p>Applications to participate in the selection must be sent in electronic format to the email address (<b>not certified email address, a.k.a. PEC</b>) <a href="mailto:curricula@fmach.it">curricula@fmach.it</a>, indicating the recruitment code (<b>355_CRI_DMS – T4 temporary data management systems</b>) in the subject of the message and <b>must consist of:</b></p> <ul style="list-style-type: none"> <li>- <b>the application form (Annex A)</b>, as per the model available on the webpage announcement, which must be saved with the file name and extension: <b>Surname First Name_Application.pdf</b>. The application must be fully completed, without any reference to other attached documentation and/or information;</li> <li>- the candidate's <b>curriculum vitae</b>, saved with the file name and extension as follows: <b>Surname First Name_CV.doc or .pdf</b>;</li> <li>- <b>a copy of a valid identity document</b>.</li> </ul> <p>Any person encountering difficulty in submitting the application due to disability is invited to contact +39 0461 615542.</p> <p>In the application form (Annex A) the candidate must declare any marriage, cohabitation or family relationship up to the fourth degree with employees, ongoing consultants, directors, members of the supervisory bodies of the Foundation. This requirement ensures maximum transparency in the recruitment process and avoids situations of potential conflict, such as, for example, direct or indirect reporting in the same organisational structure between persons who have such relationships.</p> <p>In the application form (Annex A) the candidate must declare, under their own personal responsibility, <b>the possession of the specific requirements, general requirements and any qualifications as indicated in the relative boxes of this Recruitment Announcement</b>, pursuant to Articles 46 and 47 of Presidential decree no. 445 of 28 December 2000, indicating awareness of the forfeiture of any benefits obtained and the criminal sanctions provided for respectively in Articles 75 and 76 of the aforementioned decree, in the case of untrue declarations, creation or use of false documents.</p> <p>By submitting an application for selection, the candidate assumes responsibility for the truthfulness of all the information provided in the application and in any attached</p>

	<p>documents, as well as for the conformity to the original of the copies of any documents produced, all this in accordance with Presidential decree 445/2000. The Edmund Mach Foundation reserves the right to carry out checks and if these reveal that the candidate's declarations contain any untrue content, the declarant will forfeit any benefits deriving from any provision issued on the basis of the untruthful declaration; moreover, such a declaration, as a "mendacious statement", will be punished in accordance with the Italian Criminal Code and the special laws on the subject.</p> <p>Candidates who make untruthful declarations concerning the possession of the fundamental requirements for participation in the selection process will be removed from the ranking list and the employment relationship, if already established, will be terminated.</p> <p>The Foundation shall not accept any responsibility for the loss of communications due to the incorrect indication of the address by the candidate or to a missed or late communication of the change of the address indicated in their application, or due to any postal or telecommunications defects or in any case due to third parties, unforeseeable circumstances or force majeure.</p>
<p>Proof of documentation in the event of hiring and relative deadlines</p>	<p>Within 10 days prior to hiring, the candidate must provide, under penalty of forfeiture from hiring, the attestations or certifications demonstrating possession of the requisites of admission and qualifications declared in the application form.</p>
<p>Results of the selection</p>	<p>The results of the selection will be communicated by:</p> <ul style="list-style-type: none"> <li>- <b>publication of the suitable candidate ranking</b> on the webpage dedicated to the present recruiting announcement, with the details of ranking order, surname and name; the publication of the candidate's name in the list of suitable candidates shall not be subject to the right of confidentiality, therefore the candidate may not request that their name be removed from the said list;</li> <li>- at the end of the procedure, <b>communication to all candidates</b>, whether included in the ranking of suitable candidates or not, <b>by individual email</b> (<u>not certified email, a.k.a. PEC</u>) to the contact address used to send the curriculum vitae and the application.</li> </ul>
<p>Hiring conditions and categories covered by Law 170/2010 or Law 68/99</p>	<p>The Edmund Mach Foundation operates in compliance with the legislation in force concerning fixed-term contracts.</p> <p>Candidates are invited to state whether they belong to the categories referred to in Law No. 170 of 8 October 2010 (people with specific learning disorders (SLD)) or in Law No. 68/99 (persons with disabilities or categories referred to in Article 18), and to indicate this in the application form.</p>
<p>Company welfare and benefits at current date</p>	<ol style="list-style-type: none"> <li>1. <a href="#">Family Audit</a> certified company, with flexible working time and human resources management policy, for the wellbeing of the employees and their families;</li> <li>2. <a href="#">Gender Equality Plan (GEP)</a> that promotes gender equality through a process of structural change;</li> <li>3. In-house dining hall in San Michele all'Adige, as well as a <a href="#">payment card for meals taken in registered non-company facilities</a>, with the value of Euro 6.00 per meal;</li> <li>4. <a href="#">Bike-sharing</a> facility and free car park within the San Michele all'Adige campus and at the peripheral locations;</li> <li>5. Free "<a href="#">Education Roaming (Eduroam)</a>" WiFi on the San Michele all'Adige campus (90% coverage) and in facilities of other entities affiliated with GARR for the Wi-Fi service;</li> </ol>

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	<p>6. Employee discount for the purchase of products from the <a href="#">Edmund Mach Winery</a> sales point;</p> <p>7. Staff sports club, with discount for members and promotions of sport-recreational activities (on-campus gym);</p> <p>8. Internal market of agri-food products prepared by the Foundation students.</p>
<p>Privacy Policy</p>	<p>In accordance with Article 13 of the EU General Data Protection Regulation 2016/679 ("GDPR" or "Regulation"), and in general with the principle of transparency set out in the Regulation, the Edmund Mach Foundation provides information on the processing of personal data at the webpage "<a href="#">Privacy Policy</a>".</p> <p>The candidate takes full responsibility for all the information included in their application form and curriculum vitae. The Foundation reserves the right to require that the candidate considered suitable for the post shall offer documentary proof of the qualifications they have listed.</p>

This Recruiting Announcement is issued in compliance with equal opportunities between men and women for access to employment, pursuant to Legislative decree no. 198 of 11 April 2006 "Code of equal opportunities between men and women, pursuant to Article 6 of Law no. 246 of 28 November 2005".

The candidate identifies their gender prior to the tests and/or interview.

For any matters not covered by this Recruitment Announcement, reference should be made to "[Procedure for the recruitment of human resources at the Fondazione Edmund Mach](#)".

Original signed by  
*Eng. Mario Del Grosso Destrieri*  
 Director General  
 Edmund Mach Foundation