






 <p>FONDAZIONE EDMUND MACH</p>	<h2>RECRUITING ANNOUNCEMENT</h2>	 <p>Page 1 of 6</p>
	<p>Organization and Human Resources Division Human Resources Development Office</p>	



Announcement of available position		Selection code: 356_CRI_CMG
Type of position and number of positions vacant	Third level Researcher (R3) in the field of Computational Metagenomics - Recruiting for the formation of a ranking for permanent positions.	
Organisational structure and manager for the position	Research and Innovation Centre – Unit of Computational Biology – Line Manager for the position: Claudio Donati.	
Specific requirements	<ul style="list-style-type: none"> - PhD in the area of Bioinformatics, Computational Biology, Genomics, Genetics, Microbiology, Microbial Ecology, Molecular Biology, Population Genetics, Phylogenetics, Data Science, Computer Science, or equivalent. - Knowledge of written and spoken English (B2 level), evaluated during the interview. 	
General requirements	<ul style="list-style-type: none"> - Italian citizenship with the benefit of full civil and political rights within the State of Italy, whether belonging to the Republic, or not; <p>OR</p> <ul style="list-style-type: none"> - Citizens of European Union Member States or other States, provided they meet the following requirements: <ul style="list-style-type: none"> - benefit of full civil and political rights in the country of origin or nationality (or explanation of the reasons for non-benefit); - possession of all the same requirements as for citizens of the Republic, with the sole exception of Italian citizenship, as detailed below. - 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; - 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"); - 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; - 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; - 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; - Being in compliance with any obligations for military service; - In the event of recruitment, being available to take service at Edmund Mach Foundation premises. 	

 <p>FONDAZIONE EDMUND MACH</p> 	<h2 style="text-align: center;">RECRUITING ANNOUNCEMENT</h2> <p style="text-align: center;">Organization and Human Resources Division Human Resources Development Office</p>	 <p style="text-align: right;">Page 2 of 6</p>
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Physical suitability for the specific work	<p>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.</p>
Job description	<p>The successful candidate will contribute to develop and maintain a state-of-the-art platform for microbiome data generation and perform, with adequate autonomy, analysis of large-scale metagenomics datasets from internally funded and collaborative national and international projects.</p> <p>She/he will also develop new computational tools to complement those publicly available and internally developed in the lab. Specific topics will include strain-level metagenomic profiling, comparative metagenomics, functional potential profiling, metabolic pathway analysis, integration of multi-omics data.</p> <p>The successful candidate is also expected to establish and maintain a network of internal and external collaborations and actively contribute to identify new funding opportunities.</p>
Duties	<p>Under the supervision of the PI, the selected researcher is expected to:</p> <ul style="list-style-type: none"> - Develop, customise and maintain a set of computational tools, reference databases and pipelines for the analysis of targeted and untargeted metagenomic data from different environmental sources, including soil, water as well as host-associated ecosystems; - In collaboration with the Sequencing and Genotyping platform, adapt, develop and implement computational data analysis platforms tailored to innovative metagenomic sequencing methods such as long reads sequencing; - Perform analysis and meta-analysis of microbiome data and produce analysis reports; - Maintain and document repositories of raw and analysed data and ensure the FAIRness of both data and analysis tools; - Expand the existing national and international collaboration network in environmental and agricultural microbiome research and identify new funding opportunities; - Disseminate research results through publications on scientific and technical journals and presentations in national and international meetings.
Keywords	<p>Bioinformatics, analytical method development, data processing, statistical analyses, metagenomics, computational genomics, comparative genomics, population genetics, microbiome, environmental microbiology, microbial ecology.</p>
Selection process	<p>By qualifications as expressed in Annex A (maximum 30 points) and interview (maximum 70 points). The results of the selection are based on the sum of the points awarded for the two phases of the selection process.</p>
Subjects covered in the interview	<p>During the interview, which will be conducted in English, the following knowledge will be verified (maximum 70 points):</p> <ul style="list-style-type: none"> - Advanced computational methods, pipelines and approaches for the analysis of targeted and untargeted metagenomic data (maximum 20 points); - Experimental frameworks and sequencing methods for the generation of metagenomic data (maximum 20 points);

 <p>FONDAZIONE EDMUND MACH</p> 	<h2 style="text-align: center;">RECRUITING ANNOUNCEMENT</h2>	 <p style="text-align: right;">Page 3 of 6</p>
	Organization and Human Resources Division Human Resources Development Office	



	<ul style="list-style-type: none"> - Approaches for the statistical modelling of microbiomes, including meta-analytical and machine-learning methods (maximum 20 points); - Computational methods for functional profiling and prediction of metabolic pathways in microbial communities (maximum 5 points); - General organisation and activity of FEM, rights and duties of employees (maximum 5 points). <p>In the interview, the candidate must achieve a minimum score of 40/70 points.</p>
Assessment of qualifications	<p>On the basis of the information provided exclusively in the application (Annex A), FEM will select the best 15 candidates evaluated based on the following criteria (maximum 30 points):</p> <ul style="list-style-type: none"> - Relevance of the PhD thesis to the following topics: Bioinformatics, Computational Biology, Genomics, Metagenomics, Population Genetics or equivalent (maximum 7 points attributed according to the following criteria: 0 points=no match, 1=minimal match, 4=medium match, 7=perfect match); - Post-doc work experience in the area of Bioinformatics, Computational Biology, Genomics, Metagenomics, Population Genetics (0,3 points for every month of experience up to maximum 10 points); - Scientific publications in journals with impact factor in the field of Bioinformatics, Computational Biology, Genomics, Metagenomics, Population Genetics or equivalent (0,5 points per item up to maximum 13 points. The score of the individual publications will be doubled if the candidate appears as first, last or corresponding author).
Knowledge level of languages, relative to the Common European Framework (CEFR), and method of verification	<p>The interview will be in English. Knowledge of English will be verified through the interview and a minimum level of B2 is expected.</p> <p><i>To understand the levels of knowledge required, consult the dedicated page on the EUROPASS website:</i></p> <p>https://www.coe.int/en/web/common-european-framework-reference-languages</p> <p>Failure to possess a level of English corresponding to B2 will result in exclusion from the selection process.</p>
Possession of requirements and recourse to clarification	<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>The assessment of the possession of requirements and evaluation of qualifications is based exclusively on the information declared in the application form (Annex A).</p>
Modality and deadlines for communication to candidates of the dates	<p>All communications to candidates will take place via email to the contact used to send the CV and application (Annex A) and indicated in the appropriate space of the application.</p>

	<h2 style="text-align: center;">RECRUITING ANNOUNCEMENT</h2>	
	<p style="text-align: center;">Organization and Human Resources Division Human Resources Development Office</p>	<p style="text-align: right;">Page 4 of 6</p>

<p>and locations of the interview</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 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 (https://trasparenza.fmach.it/Amministrazione-Trasparente/Personale/Contrattazione-collettiva/CCPL-Personale-Fondazioni-di-Ricerca), Third level Researcher, current gross remuneration of Euro 41.475,00, including 13th and 14th month's pay.</p>
<p>Deadline for presentation of applications and recruitment process end date.</p>	<p>Applications must arrive by and no later than 23:59 CET (the date and time of receipt shown in the electronic mail account of the Foundation shall be valid) on March 11, 2024.</p> <p>The recruitment procedure will terminate at the latest by September 11, 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 (not certified email address, a.k.a. PEC) curricula@fmach.it, indicating the recruitment code (356_CRI_CMG – Permanent R3 Computational Metagenomics) in the subject of the message and must consist of:</p> <ul style="list-style-type: none"> - the application form (Annex A), as per the model available on the webpage announcement, which must be saved with the file name and extension: Surname First Name_Application.pdf. The application must be fully completed, without any reference to other attached documentation and/or information; - the candidate's curriculum vitae, saved with the file name and extension as follows: Surname First Name_CV.doc or .pdf; - a copy of a valid identity document. <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, the possession of the specific requirements, general requirements and any qualifications as indicated in the relative boxes of this Recruitment Announcement, 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>FONDAZIONE EDMUND MACH</p> 	<h2 style="text-align: center;">RECRUITING ANNOUNCEMENT</h2>	 <p style="text-align: right;">Page 5 of 6</p>
	Organization and Human Resources Division Human Resources Development Office	

	<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 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.</p> <p>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>
Proof of documentation in the event of hiring and relative deadlines	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.
Results of the selection	<p>The results of the selection will be communicated by:</p> <ul style="list-style-type: none"> – publication of the suitable candidate ranking 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; – at the end of the procedure, communication to all candidates, whether included in the ranking of suitable candidates or not, by individual email (<u>not certified email, a.k.a. PEC</u>) to the contact address used to send the curriculum vitae and the application.
Hiring conditions and categories covered by Law 170/2010 or Law 68/99	<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>
Company welfare and benefits at current date	<ol style="list-style-type: none"> 1. Family Audit certified company, with flexible working time and human resources management policy, for the wellbeing of the employees and their families; 2. Gender Equality Plan (GEP) that promotes gender equality through a process of structural change; 3. In-house dining hall in San Michele all'Adige, as well as a payment card for meals taken in registered non-company facilities, with the value of Euro 6.00 per meal; 4. Bike-sharing facility and free car park within the San Michele all'Adige campus and at the peripheral locations;

	<h2 style="text-align: center;">RECRUITING ANNOUNCEMENT</h2>	
	<p style="text-align: center;">Organization and Human Resources Division Human Resources Development Office</p>	<p style="text-align: right;">Page 6 of 6</p>

	<ol style="list-style-type: none"> 5. Free "Education Roaming (Eduroam)" WiFi on the San Michele all'Adige campus (90% coverage) and in facilities of other entities affiliated with GARR for the Wi-Fi service; 6. Employee discount for the purchase of products from the Edmund Mach Winery sales point; 7. Staff sports club, with discount for members and promotions of sport-recreational activities (on-campus gym); 8. Internal market of agri-food products prepared by the Foundation students.
<p style="text-align: center;">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 "Privacy Policy".</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 Destreri
 Director General
 Edmund Mach Foundation