

Announcement of available position	Selection code: 303_CRI_TUM
Type of position and number of positions vacant	N. 1 (one) temporary position for 21 months* as Third level Researcher (R3) in the field of targeted and untargeted metabolomics, analysis of foods and plant material.
Organisational structure and manager for the position	<p>Research and Innovation Centre (CRI), Department of Food Quality and Nutrition (DQAN), Unit of Metabolomics.</p> <p>* The position is offered within a temporary employee absence until November 30, 2023 and the duration of the contract is limited to the duration of the absence. The contract cannot exceed the return date of the employee, currently November 30, 2023 (the duration of the contract will eventually be reduced so as not to exceed the stated date).</p>
Specific requirements	<ul style="list-style-type: none"> - Master of Science in: Chemical Sciences or in Pharmaceutical Science or in Food Science (or equivalent); and - PhD in Analytical Chemistry or in Food or and Biotechnology or Biomolecular or Pharmaceutical Sciences (or equivalent); and - At least two years of documented experience in research, acquired after the Master, in metabolomics with autonomous use of LC-MS instruments and documented experience in method development/validation and data mining. This experience can be included in the PhD activity only if the candidate has worked, during the PhD, in metabolomics with autonomous use of LC-MS or instruments and in method development/validation and data mining; and - Knowledge of written and spoken English (minimum level B2), evaluated during the interview.
General requirements	<ul style="list-style-type: none"> - Enjoyment of full civil and political rights within the State of Italy; - Italian or other State citizenship (whether or not of the European Union); Italians who do not belong to the Republic are treated as Italian citizens; citizens of European Union Member States or other States may participate in the procedure, provided they meet the following requirements: <ul style="list-style-type: none"> - enjoyment of full civil and political rights in the country of origin or nationality (or explanation of the reasons for non-enjoyment); - possession of all the same requirements as for citizens of the Republic, i.e. with the sole exception of Italian citizenship; - adequate knowledge of the Italian language for performance of the position in question; - Not have been the subject of criminal convictions or applications of penalties at their own request (plea bargaining), which have been confirmed as enforceable convictions; - Not have 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"); - Not have 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;

	<ul style="list-style-type: none"> - During the previous three years, not have exercised authoritative or negotiating powers over the Edmund Mach Foundation (Article 53 paragraph 16 ter of Legislative decree 165/2001); - Not have been dismissed for justified subjective reason nor just cause, nor have 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; - Be in compliance with any obligations for military service; - In the event of recruitment, be available to travel to any of the Foundation's offices in the province where you will be employed.
Physical suitability for the specific work	<p>In the event of employment, in the event that the Edmund Mach Foundation is obligated to carry out a health assessment, due to specific risks connected to the work, the Foundation reserves the right to 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 the light of the outcome of the examination, in the event of 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>
Exclusion from the recruitment process	<p>The following may not participate in the recruitment process: temporary staff who have been employed for the Foundation in an equivalent role for a duration of more than 15 months.</p>
Job description	<p>The work will aim mainly to conduct research in the field of mass spectrometry applied to the study plant and food science. The position will require the capability to develop and apply, with adequate autonomy, methods for the global analysis of the organic metabolites in plants and foods, by mass spectrometry (MS-metabolomics). The successful candidate will be expected to develop and apply LC-MS based methods (in particular, LC-HR-MS/MS and triple quadrupole). The successful candidate will contribute to data treatment, data analysis and interpretation, and to biomarker identification and validation via MS-experiments and database searches. She/he will also be responsible of the quality control of the data produced and of the transfer of data and metadata towards public repositories, in an Open Data context, compliant with the FAIR principles. Knowledge of Bioinformatics and Biostatistics and/or documented experience with High Resolution High Accuracy Hybrid mass spectrometer, and/or Tandem Mass Spectrometer (triple quadrupole) is considered advantageous.</p>
Duties	<p>Duties will be, within publicly funded international projects and consortia, to perform experiments of untargeted and targeted metabolomics, record data and keep detailed and accurate records, perform the quality control of the data produced, interpret the fragmentation trees and annotate the metabolites, contribute to the improvement of the in-house data pipeline for experiments of metabolomics, data transfer to open repositories selected for the Projects, and to produce regular written reports on the results.</p>
Keywords	<p>Metabolomics, Mass Spectrometry, Food, Biomarker identification, Data mining, Data interpretation, Data Sharing.</p>
Selection process	<p>By educational qualifications (maximum 30 points) and interview (maximum 70 points). The results of the selection are based on the sum of the points awarded for the educational qualifications and interview.</p>

<p>Subjects covered in the interview</p>	<p>During the interview, which will be in English, the knowledge in the following topics will be verified (maximum 70 points):</p> <ol style="list-style-type: none"> 1. Mass Spectrometry (up to 13 points, threshold 9); 2. Strategies for the data analysis in the field of both targeted and untargeted metabolomics (up to 13 points, threshold 9); 3. Statistical modelling and interpretation of metabolomics data (up to 12 points, threshold 8); 4. Strategies for the structural annotation of metabolites (up to 12 points, threshold 8); 5. Safety in the chemical laboratory (up to 10 points, threshold 4); 6. Open Science, the FAIR principles, metabolomics data and metadata, and public repositories (up to 5 points); 7. Knowledge of the activities and organization of Fondazione Edmund Mach (up to 5 points). <p>In the interview, the candidate must achieve a minimum score of 50/70 points.</p>
<p>Assessment of qualifications and pre-selection</p>	<p>On the basis of the information provided exclusively in the application form (Annex A), the Foundation will select the best 10 candidates for admission to the interview. This preselection will be conducted on the basis of the highest scores achieved, according to the following criteria (maximum 30 points, threshold 8):</p> <ul style="list-style-type: none"> - Post-doc work experience, beyond the experience mentioned in the requirements, in the areas of metabolomics, analytical chemistry, data analysis, mass spectrometry and nutritional biochemistry in highly qualified research institutions or Universities (between 0.5 and 2 points for each year, depending on the relevance of the research activities, up to a maximum of 6 points); - Scientific publications in journals with IF (5 Year Impact Factor) in the field of metabolomics, analytical chemistry, data analysis, mass spectrometry and to their applications (between 0.5 and 2 points for each publication, depending on IF: 0.5 if IF<2; 1 if IF between 2 and 4; 2.0 if IF between 4 and 10; 3 if IF higher than 10; and up to a maximum of 15 points. Points doubled if first, last or corresponding author); - Knowledge and skills in Bioinformatics (3 points) and in Biostatistics (3 points); - Training course, summer school or master in metabolomics with High Resolution High Accuracy Hybrid mass spectrometer, and/or Tandem Mass Spectrometer (triple quadrupole) (up to 2 points, depending on relevance and duration of the activity, up to a maximum of 4 points). - Documented experience (as a contributor) in the use of public repositories for metabolomic data and metadata (up to a maximum of 2 points depending on relevance and duration of the experience).
<p>Knowledge level of languages, relative to the Common European Framework (CEFR), and method of verification</p>	<p>All candidates admitted to the interview will be tested for knowledge of spoken and written English, through an interview on a technical-scientific subject, and for this will require a minimum level of B2.</p> <p><i>To understand the levels of knowledge required, consult the dedicated page on the EUROPASS website:</i></p> <p>https://europass.cedefop.europa.eu/it/resources/european-language-levels-cefr</p> <p>Failure to possess a level of English corresponding to B2 will result in exclusion from the selection process.</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</p>

	<p>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, however, 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.</p> <p>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>
<p>Methods and deadlines for communication to candidates of the dates and locations of the interview/test</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) or in videoconference.</p> <p>Each selected candidate must attend the interview/test(s), where they must present a valid photographic identification document, or if the tests are held in remote videoconferencing, the document must be presented in advance. Late arrival or failure to appear at the test venue or at the videoconference link, 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 (R3), current gross remuneration of Euro 39.539,25, 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 (the date and time of receipt shown in the electronic mail account of the Foundation shall be valid) on January 31, 2022. The recruitment procedure will terminate at the latest by July 31, 2022.</p>
<p>How to present applications</p>	<p>Applications to participate in the selection must be sent in electronic format to the email address (<u>not certified email address, a.k.a. PEC</u>) curricula@fmach.it, indicating the recruitment code (303_CRI_TUM – Temporary R3 metabolomics) in the subject of the message and must consist of:</p> <ul style="list-style-type: none"> - the candidate's curriculum vitae, saved with the file name and extension as follows: Surname First Name_CV.doc or .pdf; - 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 completed in full, without any resort to references to other attached documentation and/or information; - 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 the candidate must declare any marriage, cohabitation or family relationship up to the fourth degree with employees, ongoing consultants, directors or members of the Foundation's supervisory bodies. 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 (Annex A) the candidate must declare, under his/her 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>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 the 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 at most 10 days before the date of assumption to the position, the candidate must provide the following, on penalty of cancellation:</p> <ul style="list-style-type: none"> - Master degree certificate; - PhD certificate
<p>Results of the selection</p>	<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.
<p>Hiring conditions and categories covered by 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 68/99, and to indicate this in the curriculum vita sent in application for recruitment.</p>
<p>Company welfare and benefits at current date</p>	<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. In-house dining hall and coffee shop 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;

	<ol style="list-style-type: none"> 3. Bike-sharing facility and free car park within the San Michele all'Adige campus and at the peripheral locations; 4. 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; 5. Employee discount for the purchase of products from the Edmund Mach Winery sales point; 6. Staff sports club, with discount for members and promotions of sport-recreational activities (on-campus gym); 7. Internal market of agri-food products prepared by the Foundation students.
<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 "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 "[Regulations for the recruitment of human resources at the Fondazione Edmund Mach](#)".

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