




Job description	Selection code: 329_CRI_AGRITECH
Type and number of vacancies	<p>N. 3 (three) positions of IV level Researcher (R4) with a fixed term duration up to a maximum of 36 months* of the research project in sectors 07 / E1 - Agricultural genetics and 05 / E2 - Molecular biology which includes following sub-projects:</p> <ul style="list-style-type: none"> - <u>Project 1</u>: Molecular characterization of the FEM germplasm in the frame of the construction of a database; - <u>Project 2</u>: Study of the molecular mechanisms of resilience to climate change in fruit plants through the integration of multi-omic data and identification of candidate genes; - <u>Project 3</u>: Development and application of cisgenesis and genome editing protocols in apple and grapevine for functional characterization of abiotic stress response genes. <p>Selection for the formation of a ranking list for fixed-term recruitment.</p>
Job location with the Fondazione and general manager of the position	<p>Centre for Research and Innovation (CRI). Director: Prof. Mario Pezzotti.</p> <p>* The duration of the contract is limited to the completion of activities pertinent to the specific research project and in any case to the research project itself. Therefore, the start date is negotiable, but the contracts cannot extend beyond the end of the research project.</p>
Minimum requirements for submitting an application	<ul style="list-style-type: none"> - <u>Master's Degree</u> in: Agricultural Sciences and Technologies, Molecular Biology, Biotechnology or equivalent; - Knowledge of the <u>English language</u> of at least B2 level, assessed during the interview.
Exclusion from the selection process	<p>There are no exclusions from the selection in relation to the variability of the duration of the contracts. Laws relating to the duration of a fixed-term contract at the same level with the same employer (with some exceptions provided for at the level of collective bargaining) require that a job offer will only be proposed to candidates who have seniority at FEM compatible with the duration of the proposed contract (ie. sum of previous to current fixed-term contracts at the same level of the current contract equal to or less than 36 months).</p>
Background information and description of research projects	<p>The positions are offered as part of the initiatives of the National Recovery and Resilience Plan (PNRR), CN Technologies of Agriculture (Agritech), which includes the following 3 thematic projects:</p> <ul style="list-style-type: none"> - <u>Project 1</u>: Genetic analysis of germplasm collections, including improvement materials for traits of sustainable quality, oriented to the development of FAIR databases; - <u>Project 2</u>: Identification of the molecular basis of resilience to climate change in fruit plants through the integration of multi-omics data; - <u>Project 3</u>: Development of cisgenesis and genome editing protocols to obtain materials resilient to abiotic stresses and for the functional study of the cuticle. <p>The identified human resources will provide, under the supervision of the PIs of the project, the following skills:</p> <ul style="list-style-type: none"> - <u>Project 1</u>: Molecular characterization of the FEM germplasm in the frame of the construction of a database;

	<ul style="list-style-type: none"> - <u>Project 2</u>: Study of the molecular mechanisms of resilience to climate change in fruit plants, through the integration of multi-omic data and identification of the candidate genes; - <u>Project 3</u>: Development and application of cisgenesis and genome editing protocols in apple and grapevine for the functional characterization of abiotic stress response genes.
<p style="text-align: center;">Tasks</p>	<ul style="list-style-type: none"> - <u>Project 1</u>: Genotyping analysis by SNP array; kinship studies and core-collection identification; digitization of data and metadata; drafting and submission of manuscripts; - <u>Project 2</u>: Analysis of transcriptomics data obtained from sequencing of RNA-seq libraries and integration with genomics studies; drafting and submission of manuscripts; - <u>Project 3</u>: Transformation of grapevine and apple trees with constructs for cisgenesis and genomic editing; preparation of protoplasts and their transfection with DNA, RNA and proteins; regeneration of plants and functional tests; cuticle analysis; drafting and submission of manuscripts.
<p style="text-align: center;">Keywords</p>	<ul style="list-style-type: none"> - <u>Project 1</u>: Genotyping; molecular markers; SNP array; phenotyping; database; fruit plants; - <u>Project 2</u>: Genomics; transcriptomics; metabolomics; data integration; fruit plants; - <u>Project 3</u>: Cis-genesis; genome editing; protoplasts; abiotic stress; cuticle; fruit plants.
<p style="text-align: center;">Selection process</p>	<p>A maximum of 30 points will be allocated for qualifications while the interview will be worth up to 70 points. The recruitment process will be based on the total points obtained through qualifications and performance at the interview, the results of which will be used to generate a short list for each subproject.</p> <p>The candidate should indicate which project(s) they are applying to as they will be evaluated for inclusion in the relevant ranking(s) of these. At the discretion of the Foundation, (see "<i>Procedura per la selezione delle risorse umane presso la Fondazione Edmund Mach</i>"), candidates may be drawn from one subproject short list for another short list if there are no suitable candidates or no suitable candidate accepts the job offer for that subproject.</p>
<p style="text-align: center;">Subjects covered by the interview</p>	<p>The interview, which will be held in English, will include a brief presentation of the candidate's education, work experiences, ambitions and knowledge in the following areas (maximum 70 points):</p> <ul style="list-style-type: none"> - <u>Project 1</u>: Genetics and genomics, marker-assisted selection, with particular reference to grapevines, apples and berry fruits; - <u>Project 2</u>: Genomics, transcriptomics and metabolomics, with particular reference to grapevines, apples and berry fruits; - <u>Project 3</u>: New breeding technologies for functional genomics studies in grapevine and apple trees: methods for obtaining edited and cisgenic plants and for their characterization. <p><u>Evaluation criteria for the interview:</u></p> <p>Scores will be assigned to candidates by the Commission according to the following criteria: up to a maximum of 20 points will be attributed to the presentation by the candidate of their personal research profile (0-5 points: vague and not very articulated; 5-15 points: informative, well-articulated and effective; 15-20 points: extremely effective presentation); up to 50 points will be attributed to the interview on the subproject(s)</p>

	<p>selected by the candidates by assessing the candidate's knowledge of the subjects indicated above for each project (0-10: poor knowledge of the relevant topics and limited ability to communicate orally; 10-20: limited knowledge of some topics with sufficient ability to communicate orally; 20-30: knowledge of most topics and moderate ability to communicate orally; 30-40: good overall knowledge of the topics and strong oral communication ability; 40-50: excellent knowledge of the topics with very strong oral communication ability).</p> <p>The evaluation will be expressed in points only and the candidate must reach a minimum evaluation at the interview of 40/70 points to be ranked in the shortlist.</p>
<p>Pre-selection criteria and evaluation of qualifications</p>	<p>On the basis of the information contained in the application form (please use the form available on the web page of this announcement), integrated at the discretion of the Commission contained in the curriculum vitae, candidates with a minimum score of 10 out of 30 points will be admitted to the interview phase. The evaluation of qualifications will be as follows:</p> <ul style="list-style-type: none"> - Research experience (including the PhD period) in the grapevine, apple and berry fruit <u>species</u> (1 point per year up to a maximum of 5 points); - Use of nucleic acid analysis <u>software</u>, with particular reference to the following <u>topics</u>: genetic diversity studies, genotype-phenotype association or gene expression analysis (1 point for each software up to a maximum of 4 points); - <u>Scientific publications with Impact Factor (IF) on ISI-JCR journals in the last 10 years (from 2013): for each publication calculate and report the product (score) between the journal's IF (of the publication year) and the coefficient of the author's position (0.7 if first, last or corresponding author - 0.3 if other position, up to a maximum of 10 points)</u>; - <u>Scientific publications (non-popular) without IF</u> (conference abstracts, proceeding, book chapters) on grapevine, apple or berry fruits (0.5 points per contribution, up to a maximum of 4 points); - <u>Recognitions/awards</u> as the best contribution (poster/oral) to a national or international conference in the sectors 07 / E1 - Agricultural genetics and 05 / E2 - Molecular biology (1 point for awarded contribution up to a maximum of 2 points); - <u>Involvement</u> (drafting of the project or participation in progress meetings or participation in drafting reports) in <u>national/international projects</u> in the sectors 07 / E1 - Agricultural genetics and 05 / E2 - Molecular biology (1 point per project up to a maximum of 2 points).
<p>Language assessment according to the Common European Framework of Reference for Languages (CEFR): level of knowledge required</p>	<p>Knowledge of English will be verified at interview on a technical or scientific topic and must be equal to or exceed level B2.</p> <p>Definitions of levels can be found at the following link: https://www.coe.int/en/web/common-european-framework-reference-languages</p> <p>If during the interview it is ascertained that the candidate does not possess the knowledge of English at the minimum level, they will be excluded from the selection.</p>
<p>Date of interview</p>	<p>Candidates admitted to the interview phase will be invited at the Fondazione E. Mach at San Michele all'Adige (TN) or via videoconference on October, 7, 2022.</p>
<p>Gross annual remuneration</p>	<p>Contract type: CCPL Research Foundation Personnel (https://trasparenza.fmach.it/Amministrazione-Trasparente/Personale/Contrattazione-</p>

	collettivo/CCPL-Personale-Fondazioni-di-Ricerca): for a fourth level Researcher, the current gross annual remuneration is Euro 34,563.94.
Deadline for presentation of applications and deadline for the conclusion of the recruitment procedure	Applications must be received no later than 11:59 pm (the date and time of receipt indicated in the Foundation's e-mail account will be taken as proof) on September 22, 2022 . The recruitment procedure will be completed by March 22, 2022 at the latest.
How to submit an application	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 (329_CRI_AGRITECH – R4) in the subject of the message and must consist of : <ul style="list-style-type: none"> - the application form (Annex A), using the form available on the webpage announcement: this should be saved with the file name and extension: Surname First Name _Application.pdf. The application must be completed in full, with no references to other attached documentation and/or information; - the candidate's curriculum vitae, saved with the file name and extension: Surname First Name_CV.doc or .pdf; - a copy of a valid identity document with photograph. Any person encountering difficulty in submitting the application due to disability is invited to contact +39 0461 615542.
Proof of documentation required for hiring and relative deadlines	At least 10 days before the start date of the non-permanent contract, the candidate must provide the following original document, or the offer will be cancelled: <ul style="list-style-type: none"> • Master of Science (or equivalent) certificate.
Results of the selection process	The results of the selection will be communicated by: <ul style="list-style-type: none"> - publication of the shortlist of suitable candidates on the webpage dedicated to the present recruiting announcement, with the details of rank, surname and name; the publication of the candidate's name in the list of suitable candidates is not subject to confidentiality regulations; therefore, the candidate can not request that their name be removed from this list; - at the end of the selection procedure, all candidates will be notified by individual email (<u>not certified email, a.k.a. PEC</u>) as to whether they are included in the shortlist of suitable candidates or not; this email will be sent to the contact address used by the candidate to send their curriculum vitae and the application.
Hiring conditions and categories covered by Law 68/99	The Fondazione E. Mach operates in compliance with current legislation concerning fixed-term contracts. 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.
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. In-house dining hall and coffee shop in San Michele all'Adige, as well as a <u>payment card for meals taken in registered non-company facilities</u>, with the value of Euro 6.00 per meal; 3. <u>Bike-sharing</u> facilities and free car park within the San Michele all'Adige campus and at the peripheral locations; 4. Free "<u>Education Roaming (Eduroam)</u>" WiFi on the San Michele all'Adige campus (90% coverage) and in facilities of other entities affiliated with GARR for the Wi-Fi service;

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	<ol style="list-style-type: none"> 5. Employee discount for the purchase of products from the <u>Edmund Mach Winery</u> sales point; 6. <u>Staff sports club</u>, with discount for members and promotions of sport-recreational activities (on-campus gym); 7. Internal market of agri-food products prepared by the FEM high school 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 this Regulation, the Fondazione E. Mach provides information on the processing of personal data on the webpage "Privacy Policy".</p> <p>The Foundation reserves the right to request documentary proof of the qualifications listed by the candidate considered suitable for the post offered.</p> <p>The candidate takes full responsibility for all information included in the application form and in their curriculum vitae. The Foundation reserves the right to require that the candidate considered suitable for the post provides 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, under Law no. 198 of 11 April 2006 "Code of equal opportunities between men and women, under Article 6 of Law no. 246 of 28 November 2005".

The candidate may identify 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
Ing. Mario Del Grosso Destreri
Director General
Fondazione E. Mach