Job description	**Selection code: 290_CRI_DAM**

Type of post and number of positions vacant	**N. 1 (one) temporary position for up to 30 months* as Fourth level researcher (R4) in the field of data mining and eco- epidemiological data analysis and modelling.**
Organisational structure and manager for the position	Research and Innovation Centre (CRI), Department of Biodiversity and Molecular Ecology, Applied Ecology Research Unit. Project PI Annapaola Rizzoli. The position is offered within the Horizon 2020 Large Collaborative Project "Monitoring outbreak events for diseases surveillance in a data science context (MOOD; https://mood-h2020.eu/)" and the duration of the contract is limited to the duration of the project itself. Therefore, the start date is negotiable, but the contract cannot extend beyond the actual project end date of 31 December 2023.
Requirements necessary for participation	- Master's degree in mathematics, statistics, biology, ecology, epidemiology, medical and veterinary sciences or equivalent; - Knowledge of written and spoken English (minimum level B2), evaluated during the interview.
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 a duration of more than 6 months.
Job description	The successful candidate will provide, under the supervision of the project PI, expertise in data mining, data analysis as applied to risk assessment of vector-borne and zoonotic diseases and will collaborate on the development and implementation of innovative approaches in data mining and data analysis, to achieve the tasks assigned to FEM by the EU Horizon 2020 project MOOD (specifically Workpackage 2; Tasks 2).
Duties / Tasks	- Literature review, data extraction from scientific and other publications, and data mining from various sources; - Collaboration on the development and application of statistical and mathematical data analyses applied to the integration of environmental, ecological and epidemiological data; meta-analyses of data collected from literature; - Collaboration on the drafting of scientific papers and technical report writing.
Keywords	Ecological and epidemiological data mining, eco-epidemiological data analysis, meta-analysis, risk assessment.
Recruitment methods	By qualifications (**maximum 30 points**) and interview, (**maximum 70 points**). The results of the recruitment process will be based on the total points obtained as a result of qualifications and performance at the interview.
Subjects covered in the interview	During the interview, that will be held in English, the knowledge in the following fields will be verified (**maximum 70 points**): - Systematic literature review and data collection; data mining from different data sources, data-base design and development and data management (**10 points, 7 points minimum to pass the interview stage**); - Epidemiological and statistical data analysis and modelling with specific knowledge of vector borne and zoonotic diseases (**20 points, 12 points minimum to pass the interview stage**); - Meta -analysis of eco-epidemiological data, in particular with data extracted from literature (**20 points, 12 points minimum to pass the interview stage**); - Knowledge of software packages to analyse environmental, ecological and epidemiological data (**15 points, 8 points minimum to pass the interview stage**); - Knowledge of the research and organization of Fondazione Edmund Mach (**5 points, 3 points minimum to pass the interview stage**).

	The candidate must obtain a **minimum mark at the interview of 50/70 points.**
Qualification evaluation and pre-selection criteria (if provided for)	On the basis of the information contained in the *curriculum vitae* submitted in the application, **the 10 applicants** with the highest scores obtained following the criteria below, **will be admitted to the interview phase (maximum 30 points):** - PhD thesis with subject on ecological or epidemiological data analysis (**up to 5 points depending on relevance**); - Work experience (including the years of PhD) in the field of ecological or epidemiological data analysis in qualified research institutions or Universities (**between 0.5 and 2 points for each 6 months, depending on the relevance of the activities, up to a maximum of 10 points**). - Internship in the field of ecological or epidemiological data analysis in qualified research institutions or Universities (**between 0.5 and 2 points for each 4 months, depending on the relevance of the activities, up to a maximum of 5 points**). - Scientific publications in journals with Impact Factor (IF) in the field of epidemiology, data analysis, ecology, and to their applications to life science (**between 0.25 and 1.5 points for each relevant publication, depending on IF of the journal which should be listed in the application, up to a maximum of 6 points**). - Oral or poster presentation at conferences or technical-scientific publications or dissemination events in ecological or epidemiological data analysis in the last 5 years (**between 0.5 to 1 point per item, depending on the relevance of the contribution, up to a maximum of 4 points**). **Please be sure to include your role, full project title, institute and web page if possible.**
Knowledge of languages in the context of the Common European Framework of Reference for Languages (CEFR): level of knowledge and method of ascertainment	Knowledge of written and spoken scientific English will be verified (to be checked by an interview on a subject of a technical or scientific nature) at a minimum level corresponding to B2. *To understand the levels of knowledge required consult the dedicated page at the EUROPASS site:* https://europass.cedefop.europa.eu/it/resources/european-language-levels-cefr **In the event that it is ascertained that the candidate does not have knowledge of English corresponding with level B2, they will be excluded from the recruitment process.**
Methods and deadlines for communication of the calendar and location to candidates admitted to the interview/test	Candidates admitted to the interview phase will be informed of the date and location via e-mail (**NO PEC**), sent to the contact address used to send the curriculum, at least 10 days before the interview date. The interviews will be held at the Fondazione E. Mach in San Michele all'Adige (TN) or in videoconference.
Gross annual remuneration	Temporary employee contract "CCPL Fondazioni", Fourth level Researcher, annual salary Euro 34.563,94 including 13° and 14° months.
Deadline for presentation of applications and deadline for the conclusion of the recruitment procedure	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 March 28, 2021.** The recruitment procedure will terminate at the latest by September 28, 2021.
How to present applications	Applicants wishing to participate in the selection should send a sufficiently **detailed** curriculum vitae (including all the information listed above for the qualification

	evaluation, and any other documentation considered relevant by the candidate), in electronic format to the e-mail address (**NO PEC**) curricula@fmach.it, indicating the recruitment code in the object of the message **(290_CRI_DAM - R4 temporary data analysis)**. The work curriculum must be saved with file extension: **Surname Name_CV.doc , or .pdf**. In cases of access issues due to disability, please contact the following telephone number +39 0461 615542.
Proof of documentation in the event of hiring and relative deadlines	At least 10 days before the date of hiring, the candidate must provide the following original documents, on penalty of cancellation: - Master of Science certificate;
Results of the selection	The results of the selection will be communicated by: – **Publication of the suitable candidate ranking** on the webpage dedicated to the present recruitment, with the details of ranking order, family name, name and points obtained; – **Communication to all candidates**, considered suitable and not suitable to the position, at the end of the recruitment procedure **individually via e-mail (NO PEC)**, sent to the contact address used to send the curriculum.
Hiring conditions and categories covered by Law 68/99	Please note that the Edmund Mach Foundation operates in compliance with the legislation in force as concerning fixed-term contracts. Finally, candidates are invited to state whether they belong to the categories recognised according to Law 68/99 and indicate this in the curriculum sent to participate in the recruitment process.
Current Welfare and benefit	1. *Family Audit* certified company, with flexible working time and human resources management policy work-life conciliation oriented; 2. Access to the in-house canteen and cafeteria in San Michele all'Adige, card for meals out of the canteen available with the value of 6,00 Euro; 3. Bikesharing location and free car park within the campus in San Michele all'Adige and in the peripheral offices; 4. Free Wi-Fi eduroam access (Education Roaming) in the campus building in San Michele all'Adige (90% coverage) and in other companies with GARR Wi-Fi service; 5. Employee discount for the purchase of the internal winery products; 6. Staff Social Club, with discount for members and promotions of sport-recreational activities; 7. Internal periodical market with agro-food products prepared by the Foundation high school students.
Information about the processing of personal data	According to Article 13 of the EU General Data Protection Regulation 2016/679 ("GDPR" or "Regulation"), and in general in accordance with the principle of transparency foreseen in the same Regulation, the information regarding the processing of personal data is available in the webpage "**Information about the processing of personal data**". Please add the following phrase to your CV <u>otherwise your application will not be considered</u>: **I have read and understood the information about the management of my personal data in accordance with the provisions of EU General Data Protection Regulation 2016/679**. The Foundation reserves the right to request documentary proof of the qualifications listed by the candidate considered suitable for the post offered. The candidate takes full responsibility for all the information included in the application form and curriculum vitae. The Foundation reserves the right to request documentary proof of the qualifications listed by the candidate considered suitable for the post offered.

Before carrying out the tests and/or evaluation interview, the candidate shall be identified and asked to complete a declaration, if this has not already been presented, stating:
- that she/he has the requirements indicated in the notice;
- that there are no reasons for incompatibility provided for by the law or linked to interests of any kind with reference to the scope of the employment;
- that she/he has no criminal convictions and is not subject to measures related to the application of prevention measures, civil decisions and administrative provisions registered in the criminal record;
- the truthfulness of the declarations made in the application/ curriculum and an undertaking to communicate any subsequent changes.

For any matters not covered by this recruitment notice, reference should be made to "**Regulations for the recruitment of human resources at the Fondazione Edmund Mach**".

The Director General
Ing. Mario Del Grosso Destreri