



## Research and Innovation Centre

<b>Training opportunity - PhD Doctoral offer</b>	<b>Vacancy Code 051_AMB_DTEMSE</b>
Job title	Research fellowship to support a PhD in environmental modelling and spatial ecology
Job description	Development of GIS-based environmental modelling applications based on Open Source GIS software applications
Duties / Tasks	Implementation of theoretical foundation on Thematic Cartography into GIS-based applications
Keywords	GIS based data management and analysis, Algorithms development
Contract type and length	The Mach Foundation is funding a research fellowship to support a PhD program in collaboration with national and international universities. The research project will be carried out at the research centre of the Edmund Mach Foundation with a grant in the frame of a PhD course in internationally recognized Universities. The grant is for three years with a possible extension of one year. Requirement for the grant is the admission to a PhD school individuated by FEM within the first year of the fellowship. Registration costs for the PhD course will be covered by FEM.
Languages knowledge	English, basic Italian
IT knowledge	GIS software (e.g., GRASS GIS, MapInfo, ESRI); Programming languages (e.g. C, Python); experience in creation of (SQL) databases
Required title to join the selection	M.Sc.
Type of title	Degree in Geography, Geoinformatics, Biogeosciences, Environmental Science, Ecology or similar areas
Required experience	Previous experience with the development of Open Source software. Good experience with the following programming languages: R, Python, C, C++, Java, SQL and HTML. GIS: GRASS GIS, Quantum GIS (GUI and scripting), ArcView GIS or similar.
Psychosocial skills	Capacity to work in a team and to promote coordination of own research activity. Strong communication skills are required: the candidate is expected to regularly interact with other research institutions.
Supervisor	Markus Neteler

ISTITUTO AGRARIO  
DI SAN MICHELE ALL'ADIGE

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**Application**

To apply for the position the applicants should send a message mentioning the code (051\_AMB\_DTEMSE) to the email account **risorseumane.centroricerca[AT]iasma.it** including the following items:

1. an up-to-date CV (Please add the following phrase to your CV otherwise your application will not be considered: I consent to the use of my personal data in accordance with the provisions of decree 196/2003);
2. the filled application form available online (051\_AMB\_DTEMSE\_Application);

**The deadline for the submission of the applications is the 7<sup>th</sup> March 2010** – we will accept speculative applications after this date.

**Short list candidates**

FEM will short-list the applicants. The selected and non selected candidates will be notified. Short-listed candidates will be contacted for a phone interview or invited for interview in San Michele.

**Information about CRI**

The Research and Innovation Centre of the foundation (CRI), with more than 200 researchers, has a mission to promote and enhance the Trentino land-based economy through studies and innovation that improve agricultural and environment products and enhance the quality and nutritional value of food products. It sustains the region's environmental resources through development and promotion of low-impact agricultural practices, study and preservation of biodiversity, and characterisation of alpine and subalpine ecosystems. The centre operates fully integrated research programs and state-of-the-art platform technologies to deliver innovative solutions and competitive products for our stakeholders and end-user communities. The CRI concentrates its actions in three main areas of interest: 1) agriculture: 2) food and 3) environment. In carrying out its programme, the CRI will maintain a firm territorial basis to its operations, with full acknowledgement of the global dimension of research and the necessity for competition in international contexts.

**Terms and conditions**

The grant will be 20.000,00.= Euro / yearly (gross). The student will have the right for the lunch at the Foundation canteen for free. Help will be provided to find accommodation. Registration costs for the PhD course will be covered by FEM.

**Equal opportunities**

The position is open to both genders, Law n. 903, 9/12/1977, art. 1. The policy and practice of the Edmund Mach Foundation require that all staff are offered equal opportunities within employment.

**Data treatment**

All data supplied by applicants will be used only for the purposes of determining their suitability for the position and will be held in accordance with the principles of the Personal Data Protection Code, Legislative Decree no. 196 of 30 June 2003. By sending the Cv and application, the candidate consent and authorize the Foundation to the use of his/her personal data.