



## Research and Innovation Centre

<b>Training opportunity - PhD Doctoral offer</b>		<b>Vacancy Code 060_AMB_DEC</b>
Job title	Research fellowship to support a PhD in Ecology of cyanobacteria and Cyanobacterial harmful algal blooms	
Job description	The fellowship will consider the processes responsible of the present distribution of <i>Anabaena lemmermannii</i> , which represents one of the most recent invaders in the deep southern subalpine lakes. The isolated strains obtained from the germination of akinetes collected in the sediments of Lake Garda, and in other lakes included in the project EULAKES and in the subalpine area, will be analysed also for the presence of toxic compounds and genetic strain variability (in collaboration with the molecular chemistry laboratory).	
Duties / Tasks	<ul style="list-style-type: none"> <li>i) collection of biological samples and surface sediment cores;</li> <li>ii) Enumeration of Cyanobacteria and other microalgae (densities and biomasses) with standard methods (microscopic examinations of fixed samples with inverted microscopes).</li> <li>iii) Enumeration of akinetes from sediment samples; germination of akinetes;</li> <li>iv) Maintenance of algal cultures of different cyanobacteria for analysis and experimental purposes (e.g., fate of cyanotoxins in the trophic webs).</li> <li>v) Possibly, identification of genes involved in the synthesis of toxic compounds by routinary genetic analyses.</li> <li>vi) Data elaboration and dissemination of results (papers, seminars, national and international congresses).</li> </ul>	
Keywords	Ecology, harmful cyanobacteria, algal blooms, akinete germination, <i>Anabaena</i> toxic strains, European lakes	
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	
IT knowledge	Advanced knowledge of basic software for data storage and elaboration (e.g., Office, Open Office). Basic knowledge of statistical software packages.	
Required title to join the selection	5 year Master degree	



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Type of title	Degree in Biological Sciences, Natural Sciences, Ecological sciences, Environmental Sciences (and equivalent).
Required experience	Experience in plankton taxonomy. Experience in the field of aquatic ecology, with particular focus on pelagic algal communities. Knowledge of basic molecular biology techniques and experience in the biological analyses of modern sediments will be considered a plus. The ideal candidate has experience both in algal taxonomy and in molecular ecology.
Psychosocial skills	We are looking for a highly motivated candidate with scientific interests in the ecology of aquatic environments. The candidate must have a strong motivation to improve scientific experience and to start a research career. Ability to be collaborative and to work in a team.
Supervisor	Nico Salmaso (FEM), Leonardo Cerasino (FEM). 3 <sup>rd</sup> tutor: to be identified after admission of the student to a PhD course at University.



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**Application**

To apply for the position the applicants should send a message mentioning in the subject the code (060\_AMB\_DEC) 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). Save your file in this way: **Surname Name\_cv.doc** or .pdf;
2. the filled application form available online (060\_AMB\_DEC\_Application). Save your file in this way: **Surname Name\_af.doc**;

**The deadline for the submission of the applications is the 11<sup>th</sup> July 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 employees, 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.

**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.