



Research and Innovation Centre

Training opportunity - PhD Doctoral offer	Vacancy Code 061_AMB_DCT
Job title	Research fellowship to support a PhD in Diversity, impact and fate of cyanobacterial toxins in freshwater ecosystems
Job description	The appointed person will be required to study the molecular diversity of toxins produced by different cyanobacterial species in Lake Garda and in other lakes included in the project EULAKES of contrasting trophic status, following the fate of cyanotoxins in the environment and trophic webs. Molecular analyses will be carried out using a well defined experimental design adapted for the identification and quantification of the molecules of interest in the producing organisms, in the surrounding water, and in other aquatic organisms constituting the trophic web (e.g., fishes). The applicant will have the possibility of using sensitive and accurate analytical equipment (liquid chromatograph coupled with hybrid triple quadrupole linear ion trap mass spectrometer), which is also useful to reveal and characterize unknown compounds.
Duties / Tasks	The appointed person will have the following tasks: i) Establish/adapt the best experimental designs together with the other research group members. ii) Participate in the sample collection campaigns. iii) Perform the analysis of biological/organic samples in the laboratory. iv) Perform the elaboration of the raw data. v) Contribute to the dissemination of the results by participating in congresses, conferences, seminars, writing scientific publications, etc.
Keywords	Bioactive compounds, cyanotoxins, cyanobacteria, microalgae, LC-MS, liquid chromatography, mass spectrometry, trophic webs, risk assessment
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	Competence in common applications running under Windows operating system (i.e. Office package). Basic knowledge of common statistical packages.
Required title to join the selection	5 year Master degree



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Type of title	Degree in one of the following areas: chemistry, biology, environment.
Required experience	Experience in analytical chemistry laboratories. Direct experience in mass spectrometry will be considered as a plus.
Psychosocial skills	The candidate must have a strong motivation to improve scientific experience and to start a research career. Ability to work collaboratively and with teams.
Supervisor	Leonardo Cerasino (FEM), Nico Salmaso (FEM). 3 rd 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 (061_AMB_DCT) 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 (061_AMB_DCT_Application). Save your file in this way: **Surname Name_af.doc**;

The deadline for the submission of the applications is the 11th 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.