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Preview

Post Doctoral Associate Position on the Photocatalytic Processes for the degradation of cyanotoxins in water

We are looking for a highly motivated, experienced, and talented Post Doctoral Scholar to complement our team on the Photocatalytic Processes for the degradation of cyanotoxins in water.

Description

This project is related to the Research Program "Cyanotoxins in fresh water. Advances in analysis, occurrence and treatment - CYANOWATER" funded by the Greek Ministry of Education and the European Commission under the action"ΑΡΙΣΤΕΙΑ".
CYANOWATER project aims in filling research gaps and achieving breakthrough results in (a) Development of advanced analytical methods for emerging cyanotoxins (CTs) and for simultaneous analysis of different groups of CTs, (b) Identification of the toxin-producing cyanobacteria species in freshwater bodies and (c) Development of novel advanced oxidation processes for the detoxification of water
contaminated with CTs. The strong ties and close collaboration of the CYANOWATER research team with leading research partners and water supply companies will permit technology transfer and direct and strong beneficial impacts for the international research community involved in this field but also important societal and economic impacts at a national, European and international level.

Description of the project
This project will focus on the preparation and characterization of composite nanostructured photocatalysts based on titanium oxide and polyoxometalates. The photocatalytic activity of the new nanomaterials will be evaluated for the degradation of selected cyanotoxins in water and the destruction mechanisms will be studied based on the detection and identification of stable intermediate and final degradation products. Also, the successful candidate will participate in the development and validation of advanced analytical techniques (e.g. LC-MS/MS) for the determination of cyanotoxins in environmental samples.
He / she will also have to write reports, scientific articles and present the research results in international scientific conferences.
The successful candidate will be employed for sixteen months (maximum)

Research Fields

Chemistry - Heterogeneous catalysis
Chemistry - Analytical chemistry
Engineering - Chemical engineering

Career Stage

Experienced researcher or 4-10 yrs (Post-Doc)

Research Profile

Established Researcher (R3)

Comment / web site for additional job details

http://ipc.chem.demokritos.gr/index.php?option=com_content&view=article&id=302%3Acatalytic&catid=68%3Aresearchpro&Itemid=11%E2%8C%A9%3Den%E2%8C%A9%3Den&lang=en

Requirements

Additional Requirements

Other job details

Job ID
33926825

Type of Contract
Temporary

Status
Full-time

Hours Per Week
40

Company/Institute
NCSR DEMOKRITOS

Country
GREECE

State/Province
Attiki

City
Athens

Postal Code
15310

Street
Patriarchou Grigoriou E & Neapoleos

EU Research Framework Programme

Is the job funded through the EU Research Framework Programme?
No

Company/Institute

NCSR DEMOKRITOS
Institute of Nanoscience and Nanotechnology
Public Research
Patriarchou Grigoriou E & Neapoleos
15310 - Athens
Attiki - GREECE
phone +30 210 6503643
fax +30 210 6511766
email
hiskia@chem.demokritos.gr...
option=com_content&view=...

Application details

Envisaged Job Starting Date
01/06/2014

Application Deadline
22/05/2014

Application e-mail
hiskia@chem.demokritos.gr

Qualifications
Candidates must hold the following:
1) A Diploma in Chemical Engineering (Degree, 10%)
2) A PhD in the fields of photochemistry and analytical chemistry (10%)
3) Research experience in the field of advanced oxidation processes (photocatalysis) as well as on the analysis of cyanotoxins using LC-MS/MS techniques (10%).
4) Postdoctoral experience in the study and application of photocatalytic processes for the destruction of organic pollutants as well as the development and validation of advanced analytical techniques (e.g. GC-MS, LC-MS/MS, HPLC-UV) for the determination of toxic contaminants in environmental samples (30%).
5) Candidate participation in scientific publications (peer reviewed journals) (25%).
6) Working experience in research programs (15%)

Excellent command of the English language (fluently speaking and writing) as well as excellent knowledge of software packages (e.g. MS Office, chemdraw) are considered as a prerequisite.

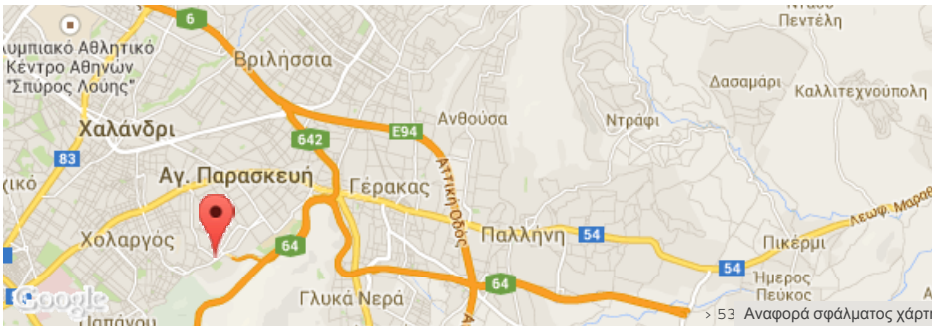
Evaluation Process
The evaluation of submitted applications will be made by the evaluation committee using the following procedure :

A) Preliminary stage where the committee will evaluate the applications against the qualifications of candidates, such as those mentioned above and based on applicant's submitted documents. Please note that applications that do not meet the qualifications as defined above will be excluded from further evaluation process. The total score of each candidate will be result from the assessment of his/her qualifications in combination with the respective weighting factors. Based on the above results a final ranking list of candidates will be made.

B) Final selection. At this stage the evaluation committee will conduct a personal interview of the first three candidates in the ranked list and the candidate who will obtain the most points out of a possible 100 % will be selected for the position.

For application send:
1) Your CV
2) Copies of your university degree(s)
3) A cover letter (up to 1 page) outlining your qualification for the project
4) A list of publications
5) Other documents to demonstrate specific experiences
6) The names and contact details of at least two referees

Applications have to be addressed to Dr. Anastasia Hiskia, email: hiskia@chem.demokritos.gr



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