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## Preview

# Post Doctoral Associate Position on the Evaluation of Composite photocatalysts for the destruction of cyanotoxins

We are looking for a highly motivated, experienced, and talented Post Doctoral Scholar to complement our team on the Evaluation of Composite photocatalysts for the destruction 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 "APIΣTEIA".

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 as well as in the evaluation of their photocatalytic activity for the degradation of selected pollutants and especially cyanotoxins. The destruction mechanisms will be studied based on the detection and identification of stable intermediate and final degradation products. The successful candidate will also evaluate the remaining toxicity during the degradation processes using appropriate toxicity tests.

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 twelve months with the possibility of contract extension.

## Research Fields

Chemistry - Heterogeneous catalysis

Chemistry - Other

## Career Stage

Early stage researcher or 0-4 yrs (Post graduate)

## Research Profile

Recognised Researcher (R2)

## Comment/web site for additional job details

<http://ipc.chem.demokritos.gr/index.php?>

[option=com\\_content&view=article&id=392&Itemid=392%E2%8C%A9%3Den&lang=en](http://ipc.chem.demokritos.gr/index.php?option=com_content&view=article&id=392&Itemid=392%E2%8C%A9%3Den&lang=en)

## Requirements

## Additional Requirements

## Other job details

### Job ID

33926832

### Type of Contract

Temporary

### Status

Full-time

### Hours Per Week

40

### Company/Institute

NCSR DEMOKRITOS

### Country

GREECE

### State/Province

Attiki

### City

Athens

### Postal Code

15341

### 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 +30-2106503643  
fax +30-2106511766  
email  
[hiskia@chem.demokritos.gr](mailto:hiskia@chem.demokritos.gr)  
[option=com\\_content&view=...](#)

## Application details

### Envisaged Job Starting Date

02/06/2014

### Application Deadline

23/05/2014

### Application e-mail

[hiskia@chem.demokritos.gr](mailto:hiskia@chem.demokritos.gr)

#### Qualifications

Candidates must hold the following:

- 1) A Bachelor Degree in Chemistry (Degree, 10%)
- 2) A Master of Science in Environmental chemistry (10%)
- 3) A PhD in the field of advanced oxidation processes with emphasis on photocatalysis (25%)
- 4) Research experience in the photocatalytic degradation of organic pollutants in water and especially cyanotoxins (10%).
- 5) Research experience in advanced analytical techniques for the detection and identification of stable intermediate and final products for the photocatalytic degradation of organic pollutants (e.g. GC-MS, LC-MS/MS, HPLC-UV, IC, TOC) as well as techniques for the evaluation of the remaining toxicity during the degradation processes (30%).
- 6) Candidate participation in scientific publications (peer reviewed journals) (10%).
- 7) Working experience in research programs (5%)

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 :

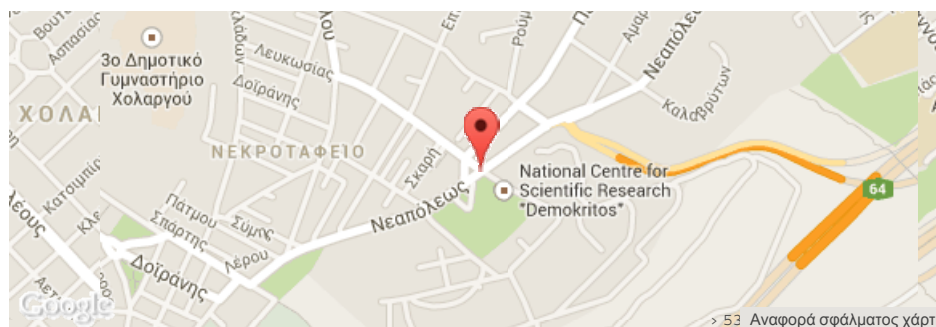
A) Preliminary stage where the committee will evaluate the applications against the qualifications of candidates, such as those mentioned above and based on applicant's submitted documents. Please note that applications that do not meet the qualifications as defined above will be excluded from further 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](mailto:hiskia@chem.demokritos.gr)



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