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Preview

Post Doctoral Position on the characterization and Photocatalytic Evaluation of Composite Photocatalysts

We are looking for a highly motivated, experienced, and talented Post Doctoral Scholar to complement our team on the characterization and Photocatalytic Evaluation of Composite nanostructured materials.

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 characterization of composite TiO₂/POM nanostructured photocatalysts using AFM, FTIR and UV spectroscopy. The photocatalytic activity of the new nanomaterials will be evaluated for the destruction of selected cyanotoxins in water. The successful candidate will also have to write reports, scientific articles and present the research results in international scientific conferences. The successful candidate will be employed for a maximum of eight months with a contract of 14.400 euros.

Research Fields

Chemistry - Heterogeneous catalysis
Chemistry - Other

Career Stage

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

Research Profiles

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

Requirements

Additional Requirements

Qualifications

Candidates must hold the following:

- 1) A Bachelors/Diploma in Chemistry or Chemical Engineering (Degree, 10%)
 - 2) A Master of Science in Materials Science and Technology (10%)
 - 3) A PhD in the field of Photochemical Processes (25%)
 - 4) Research experience in advanced spectroscopy techniques for the structural characterization of composite nanomaterials (25%).
 - 5) Research experience in the photocatalytic degradation of cyanotoxins in water (10%).
 - 6) Participation in scientific publications (peer reviewed journals) (15%).
 - 7) Working experience in research programs (5%)
- Excellent command of the English language (fluently speaking and writing) and excellent usage of computers are considered as a prerequisite.

Evaluation Process

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

Other job details

Job ID

33986727

Type of Contract

Temporary

Status

Full-time

Hours Per Week

40

Company/Institute

NCSR DEMOKRITOS

Country

GREECE

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
GREECE
email
[a.hiskia@inn.demokritos.gr](mailto:a.hiskia@inn.demokritos.gr?http://ipc.chem.demokritos.gr/index.php?option=com_content&view=article&id=392&Itemid=392%E2%8C%A9%3Den&lang=en)

Application details

Envisaged Job Starting Date

20/03/2015

Application Deadline

09/03/2015

Application e-mail

a.hiskia@inn.demokritos.gr

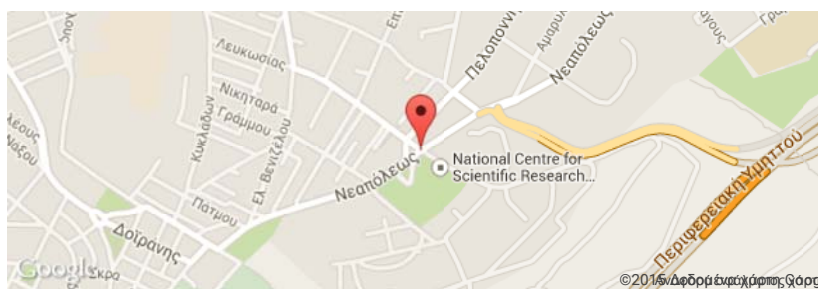
A) Preliminary stage where the committee will evaluate the applications against the qualifications of candidates, such as those mentioned above and based on applicant's submitted documents. Please note that applications that do not meet the qualifications as defined above will be excluded from further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



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