

## VACANCY NOTICE FOR THE POST OF Post-Doctoral Fellow - Chemistry (P1)

“Petru Poni” Institute of Macromolecular Chemistry (PPIMC), Iasi, Romania (PPIMC) is an Institute of Excellence of the Romanian Academy and – based on annual evaluations – the last five years was ranked in the first/second position among the 65 institutes/centres of the Romanian Academy. This leading position is internationally recognised – the Institute for Scientific Information (ISI), Philadelphia, USA, lists the Institute among the “main Romanian actors on the international scientific scene” – in fact, the Institute holds the first position in Romania in the ISI classification as a research institute.

The Post-Doctoral Fellow - Chemistry (P1) position will be in the Centre of Advanced Research in Bionanoconjugates and Biopolymers (IntelCentre) a 5 M Euro Research Infrastructure supported by the Romanian Sectorial Operational Program for Increasing the Economic Competitively (centre created in 2012).

### **OVERALL PURPOSE**

The SupraChem Lab project aims to establish a competitive research group in the field of supramolecular chemistry - biologically inspired systems for targeted medical and environmental applications. The new research group is organised in four different projects:

- Project 1: Dynamic Interactive Systems for Constitutional Water and Ion Channels
- Project 2: Constitutional systems for DNA transfection and drug delivery
- Project 3. Dynameric networks and gels for delivery, cell recognition and cell growing
- Project 4. Modelling and Theoretical chemistry of constitutional systems. .

The successful candidate should hold a Ph.D. in chemistry or biochemistry. The candidate should be skilled in synthetic organic and polymer chemistry, experience in combinatorial and dynamic chemistry. Additional experience in preparation, purification and characterization of functionalized metal nanoparticles and nano-objects in general (XPS, DLS, TEM, SEM and AFM) is mandatory. Separation and analytical techniques, including gel electrophoresis, HPLC, MALDI-ToF MS, UV-Vis, circular dichroism and fluorescence measurements is a strong advantage.

The candidate should be motivated, independent, creative, and energetic. The candidate should have the ability to independently take responsibility over his/her own project, as well as strong teamwork and communication skills.

### **Post-Doctoral Fellow - Chemistry (P1) DUTIES AND RESPONSIBILITIES**

The successful candidate will work in *Project 1: Dynamic Interactive Systems for Constitutional Water and Ion Channels* and she/he will:

- Perform research in the field of supramolecular chemistry related to water and ion channels: organic synthesis and analytical techniques (NMR, MS, FTIR, UV-Vis, etc).
- Coordinate and liaise with other members of the research group.
- Read academic papers and attend conferences to keep abreast of developments.
- Plan for specific aspects of the research programme and contribute to overall planning of future work of the research team, incorporating issues such as availability of resources, project milestones and overall research aims.
- Writing research papers and participating in research meetings locally, nationally and internationally, as appropriate.

## **SELECTION CRITERIA**

### Minimum specific conditions – Education/experience

Minimum specific conditions – Education/experience:

- a level of education corresponding to completed university studies of at least five (5) years (BSc and MSc) attested by a diploma and
- a doctoral diploma in one of the following fields: Chemistry, Natural Sciences, Life Sciences, Biochemistry.
- a minimum of 4 years research experience

### Communication, organisational and inter-personal skills

- Proven ability to work in a team and a multicultural environment;
- Ability to work under pressure and to meet tight deadlines;
- Ability to multi-task;
- A strong sense of responsibility, initiative and self-motivation;
- Good analytical ability, problem-solving and organisational skills;
- Good social skills and ability to communicate effectively.

***Failure to comply with the eligibility and essential selection criteria will result in a disqualification of the applicant concerned.***

## **SELECTION PROCEDURE**

The candidates will have to fill in the on-line application tool:

[http://www.intelcentru.ro/suprachem\\_lab/jobs.php](http://www.intelcentru.ro/suprachem_lab/jobs.php)

Applications, written in English should be submitted online and should include:

- Curriculum Vitae (including your contact address, work experience, publications)
- Cover letter indicating the research area of interest and your motivation
- Publications list
- Contact information for 3 referees

***The deadline for application is: 03.10.2016***

### ***Stage I: Eligibility checking of the candidates files.***

This verification will be performed by the SupraChem Lab Management Team

***Stage II Remote evaluation*** – consisting in the analysis of the CVs of the candidates, publication lists, motivation letters and recommendations.

### ***Stage III Interviews***

The first 3 highest marks candidates will be invited to interviews. During the interviews the candidates will present their scientific activity and their commitment towards the integration in the Project 1: Dynamic Interactive Systems for Constitutional Water and Ion Channels. Depending on the candidates

country of residence it is possible that part (or all) the interviews to use the on-line Skype communication facilities.

### **CONDITIONS OF EMPLOYMENT**

The selected candidate will be offered full-time position in PPIMC in agreement with Romanian national legislation and will be remunerated with 1800 Euro/month

### **PROTECTION OF PERSONAL DATA**

SupraChem Lab Management Team will ensure the candidates' personal data are processed as required by Regulation (EC) No 45/2001 of the European Parliament and of the Council of 18.12.2000 on the protection of individuals with regard to the processing of personal data by the Union institutions and bodies and on the free movement of such data. This applies in particular to the confidentiality and security of such data (Official Journal of the European Community L8 of 12.01.2001).