



## POST-DOC POSITION ANNOUNCEMENT

### **Call for Proposals on FAPESP postdoctoral fellowship in Science and Technology on Nanomaterials, Radiation and Radiopharmacy**

The Institutional Research & Development Plan (PDIP) entitled "Scientific, technological infrastructure in radiopharmaceuticals, radiation and entrepreneurship at the service of health" **FAPESP process 2017 / 50332-0** offers an opening for post-doctoral fellowship through this Call for Proposals.

The plan, funded by FAPESP, is composed by a multidisciplinary team that includes researchers from several IPEN centers, whose research lines are focused on the study and development of nanomaterials using radiations for biomedical purposes, radiopharmaceuticals development and dosimetry / nanodosimetry. The goal of the plan is to develop low-cost biomaterials and metal, protein or hybrid nanomaterials for health applications, as well as innovative radiopharmaceuticals for diagnosis and treatment of diseases. The researchers involved in the project work in several fields of knowledge and apply different methodologies in their investigations.

The postdoctoral fellow (PD) should conduct theoretical and/or empirical research in the program, as well as other regular activities, such as the presentation of seminars and the dissemination of research results. As a result of his/her postdoctoral research, he/she should also produce articles to be submitted in journals of high academic impact, as well as present them at conferences and seminars. The PD grant aims to develop specific project in the theme:

**“Development of mucoadhesive hydrogels with *in situ* gelification for the controlled delivery of actives”.**

#### **CONDITIONS OF THE FELLOWSHIP**

The opportunity is open to candidates of all nationalities. It is necessary that the candidate holds a PhD in Chemical Engineering, Material Sciences, Biomedical Engineering, Bioengineering, Nuclear Technology or related areas, with a strong history of publications with significant number of citations and excellent performance on written and spoken English and knowledge in: gels and hydrogels preparation using different methods, including the use of radiation; methods for chemical and physical characterization of biomaterials, such as porosity assays, thermic analyses, FTIR, swelling assays, and mechanical properties assessment; methods for encapsulation and delivery of actives; application of gel biomaterials in *in vitro* and *in vivo* models; preparation of solutions; and good laboratory practices.

The research will be developed at the **Institute of Energy and Nuclear Research, Center for Chemistry and Environmental Technology**. The selected candidate will receive a grant in the amount of seven thousand, three hundred and seventy-three reais and ten cents (R\$ 7,373.10) per month and a research contingency fund, equivalent to 15% of the total value of the

scholarship monthly fees which should be spent in items directly related to the research activity.

The grant also includes installation assistance for researchers who need to move to the city of São Paulo, Brazil, headquarters of the institution leading the project. The scholarship will be awarded for **18 months**. For the implementation of the scholarship, a dedication of **40 hours per week** during business hours will be required. Details about the Installation aid and more information about the fellowship: [www.fapesp.br/bolsas/pd](http://www.fapesp.br/bolsas/pd). One scholarship holder will be selected.

#### **DOCUMENTS FOR REGISTRATION**

1. Complete CV Lattes ([www.lattes.cnpq.br](http://www.lattes.cnpq.br)) or *Curriculum Vitae*, if foreign;
2. MyCitation (Google Scholar);
3. Letter containing the abstract of the proposal, with no more than 2 pages, stating the motivation, the main technological challenges, the objective and the chosen methodological approach;
4. Recommendation letter from previous advisor or research supervisor.

#### **CONTACT AND DEADLINE**

The candidate should send the documents via e-mail to: [egp01@ipen.br](mailto:egp01@ipen.br) with the title: "**Bolsa - PDIP – Nanomaterials and Radiopharmaceuticals**".

For clarification and additional information about the Research Program, please contact us at the same address above.

**The deadline for submissions will be July 31<sup>st</sup>, 5pm (GMT-3).** Subsequent registrations will not be accepted.

#### **SELECTIVE PROCESS**

Candidates will be selected by curriculum vitae evaluation, considering the candidate's publications, profile and trajectory, as well as the scientific quality of the proposal and its adherence to the research lines of the project.

#### **DISCLOSURE OF RESULTS**

The result will be announced on the websites of FAPESP and IPEN by **August 8<sup>th</sup>, 2019**.

The result will be announced in the order of the candidate's classification in the selection process. The classification of the candidates will be considered for waiting list effect;

If the best classified candidate does not present the necessary conditions for the implementation of the scholarship, the second placed will be called, and so on, until the filling of the opening. The decision of the Selection Committee will be taken definitively and will not be appealed. The selected candidate is expected to start work on **October 1<sup>st</sup>, 2019**.

Other information: <http://www.fapesp.br/oportunidades>.