PostDoc Opportunity in

Inorganic Chemistry/Mineralogy/Crystallography

We invite applications for 1 PostDoc position at the Saint-Petersburg State University (http://spbu.ru/), Department of Crystallography, Saint-Petersburg, Russia for the following period: 01.08.2013-30.06.2015. Salary: 60000 rub/month (~2000$/month) in 2013/2014 and 65000 rub/month (~2150$/month) in 2015.

Applicants with an interest in the material properties and synthesis of natural and synthetic phases with heavy toxic metals (Tl, Pb, U) and their behavior under a variety of natural and technological conditions are encouraged to apply. Experience in solid-state and hydrothermal experimental techniques, single-crystal and powder x-ray diffraction and vibrational spectroscopy are desirable. A Ph.D. obtained not earlier than 01.11.2007 in chemistry/geology/physics or a related discipline is required.

Research opportunities within current project include, but are not limited to:

1. The development of synthesis of mineral analogues and mineral-like phases formed as the result of alternation of spent nuclear fuel (SNF) and nanostructured uranium/plutonium compounds with subdivided organic and inorganic substructures including organically/inorganically templated composite materials.
2. Further investigation of general structural and chemical properties of minerals and inorganic synthetic compounds containing actinides by the means of single-crystal and powder x-ray diffraction. The study of novel functional actinide-containing materials.
3. Research and investigation of chemical peculiarities, crystal structure and physical properties of novel and less-studied Pb and Tl phases originated from oxidizing zones of mineral deposits and volcanic exhalations.

All the necessary equipment and lab facilities are available at SPbSU resources centers (http://spbu.ru/science/rescentr) and mainly at "X-ray diffraction methods” center (http://xrd.spbu.ru/equipment/), as well as, at the Department of Crystallography.

Applicants should send a CV and list of publications. Applications will be considered until the 1st of July, 2013. The start of the project is on 01.08.2013. For additional information, please contact Dr. Oleg Siidra (http://crystal.geology.spbu.ru/about/docents/siidra-oi), siidra@mail.ru