

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