

The Laboratory for Nonlinear Optics and Spectroscopy at Siberian Federal University- SFU (Krasnoyarsk, Russia invites applications for two Postdoctoral Fellow positions in the fields of theoretical nonlinear optics, x-ray spectroscopy, and nanoplasmonics.

Apply until:	31/09/2016
The position:	<p>The successful candidate will occupy at Siberian Federal University the position equivalent to assistant or associated professor in USA, depending on qualification.</p> <p>The research time: at least 80%, teaching: not more than 20%.</p>
Salary:	<p>About US \$1200 (after taxes).</p> <p>The possibility to increase the salary by the research grants that applicant may win further, no any upper limit in salary rising by the research Funds are here.</p>
Transportation:	Siberian Federal University pays for transportation to the Krasnoyarsk from the applicant home city.
Accommodation:	Accommodation at the Campus is provided. The rent is about only US \$30-50 per month for 1-2 rooms apartment.
Duration:	The initial appointment is for 3 years.
Profile:	<p>The applicant has to be experienced and can be involved in theoretical research in one or few topics shown below:</p> <ol style="list-style-type: none">1) Nonlinear Optics and Spectroscopy (laser pulse propagation through nonlinear media, multi-photon processes, 2D optical Fourier-spectroscopy, photon echo spectroscopy, photon crystals, coherent population trapping, laser trapping and cooling, lasing, etc).2) Chemical Physics in Biology (artificial photosynthesis, light harvesting, molecular aggregates, exciton theory, charge and energy transfer, etc).3) Nanoplasmonics.4) X-ray Spectroscopy (resonant x-ray spectroscopy related to XFEL and synchrotron radiation, etc). In collaboration with Royal Institute of Technology, Stockholm, Sweden (Prof. F. Gel'mukhanov).5) Applications of nonlinear optics and spectroscopy (OLED, medical optics, etc).6) Quantum Chemistry (in application to the above problems). In collaboration with Royal Institute of Technology, Stockholm, Sweden.7) Any interesting topic the candidate may propose related to the topics discussed above. <p>The candidate write research proposal (2-5 pages) in one of these topics and would have possibility to do mostly independent research in the Lab accordingly to the project. The proposal should contain the aims of research, short description of the problems that would be solved within the project, actuality and the methods of investigations, expected results, the resources needed for successful finishing of the project.</p>
Requirements:	<p>The candidates not older than 35 years are welcome to apply.</p> <p>The PhD thesis has to be defended not later than 5 years prior the application.</p> <p>Good knowledge of spoken and written English is also the requirement.</p> <p>We expect from the successful candidate for the position extensive skills and knowledge in at least one of the fields: the nonlinear optics, x-ray spectroscopy, nanoplasmonics, quantum chemistry, some experience in managing of interdisciplinary research, and ability to do independent job.</p> <p>The applicant should have good programming skills (C++, Fortran, Matlab).</p>

Additional conditions:	<p>The successful candidate will be involved also in teaching of PhD students and to reading the lecture course (10-12 lectures per year).</p> <p>The successful candidate would need to send at least one application per year to the Research Funds to acquire his own research budget which is partly could be spent to his own salary.</p>
Additional information	<p>Additional resources such as "conference money", travel money and resources needed for buying the equipment are also can be provided.</p> <p>Optional survival course of Russian as a foreign language could be provided by Siberian Federal University free of charge.</p> <p>Siberian Federal University provides all the help needed for getting of Russian VISA and helps in socialization in Krasnoyarsk.</p>
Send application to:	<p>Complete applications, including the proposal (2-5 pages), curriculum vitae, certificates (PhD and others), description of previous studies / professional activities as well as a list of publications and reference letters are to be sent to Dr. Polyutov by E-mail: polyutov@mail.ru.</p>
Further information:	<p>For further information and inquires please contact Dr. Sergey Polyutov (polyutov@mail.ru).</p>