



Job ID: #JOB03/2017

Job Description

Job Title: Assistant Professor in experimental atomic physics

Job Summary:

Experimental investigations of electronic structure of heavy alkali-metal dimers, data analysis, determination of the potential energy curves.

Alternatively: Experiments with laser cooling and trapping of Rb atoms in MOT, efforts in direction of obtaining cold molecules via the photoassociation.

Job Description:

Experience in conducting of experiments with different type of lasers with electronic stabilization of emitted wavelength. Familiarity with other spectroscopic equipment e.g. Fourier spectrometer for absorption and LIF measurements. Construction and testing of spectral cells for preparation of molecular samples. Interpretation and numerical analysis of experimental data.

Alternatively: optimization and control of parameters in magneto-optical trap (MOT), including magnetic fields, home-made diode lasers, timing of the measurements procedure. Development of the MOT setup for experiments with photoassociation of cold molecules.

Main research field: Physics **Sub Research Field:** Chemical physics

Career Stage: Experienced researcher or 4-10 yrs (Post-Doc)

Research Profile ([details](#)): Recognised Researcher (R2)

Type of Contract: Temporary for 2 years, with possibility of extension.

Status: Full-time

Salary: Depends on qualifications. From 3100 to 3500 PLN per month (before taxes).

Contact

More information can be obtained from
prof. Włodzimierz Jastrzębski (e-mail: jastr@ifpan.edu.pl).

Application details

Application deadline: February 28, 2017. Applications after deadline are not considered.

Required materials:

- Curriculum Vitae
- List of publications
- Two reference letters from scientists familiar with candidate research submitted by referees directly to jobs@ifpan.edu.pl

All materials should be submitted in electronic form to the address: jobs@ifpan.edu.pl with Job ID in the subject.