**Post-doc Position**

**BLOOD SUSPENSIONS: phenomenon of margination**

**Project summary**

The postdoc will be involved in a multidisciplinary project involving several permanent researchers from the labs. The project is based on blood microcirculation in biomimetic channels and has already begun. We study both the structure of the blood suspension and its rheology.

The aim is to characterize the phenomenon of margination, i.e the segregation of the different kinds of cells under flow under the influence of interactions between cells and with walls, leading for instance Red Blood Cells to gather at the center of vessels and platelets and White Blood Cells at the edge. We will use microfluidic chips made at the Liphy platform and visualization by epifluorescence microscopy. A coupling with a team of biologists at INSERM, the national center for medecine is effective.

**Location and practical aspects**

The successful applicant will be hosted by the laboratory of Rheology and Chemical Engineering, Laboratoire Rhéologie et Procédés. He/she will work under the supervision of Dr. de Loubens from the same Laboratory.

The gross salary will be 2518 euros/months, equivalent to a net salary of 2037 euros/month.

**Qualifications of the applicant**

The applicant will be an experimentalist PhD from physics, mechanics or physical-chemistry with a strong interest for biological/medical applications. We seek for a scientist with a background in microfluidics. Any skill in the manipulation of blood or other living fluids will be appreciated. Another valuable skill could be a thorough knowledge of rheology of rigid particle suspensions.

**Applications**

Interested candidates should send their CV and cover letter to clement.de-loubens@univ-grenoble-alpes.fr and thomas.podgorski@univ-grenoble-alpes.fr