

Direct Doctorate on “Development of Advanced Methods for Modeling Scattering Data from Proteins and Lipoproteins”

The Complex Fluids group of the Institute of Physics (IP), University of São Paulo, offers an opportunity for a Direct-Doctorate (DD) fellowship (FAPESP financial support), in the framework of the Thematic Project "**Structural and biophysical properties of native and modified lipoproteins**".

Coordinated by Professor Antonio Martins Figueiredo Neto, from the IP, the project has the participation of Prof. Cristiano Luis Pinto de Oliveira, also from IP and Prof. Nagila Damasceno, from Nutrition Faculty/University of São Paulo, as principal investigators. The project brings together researchers from different universities and specialties in São Paulo: physics, medicine, odontology and nutrition.

The fellow will develop projects on the topic “*Development of advanced methods for modeling scattering data from proteins and lipoproteins*”. It is preferable that the candidate has knowledge on programming, X-ray scattering/diffraction and structural molecular biology. The work has multidisciplinary characteristics insofar as the proteins and lipoproteins to be investigated will be provided by researchers linked to the thematic project. We are interested on the development of protocols and tools for simulation, analysis and modeling of small angle scattering data for the structural characterization of proteins and lipoproteins from several classes.

The project will be developed at the Institute of Physics of University of São Paulo, under the supervision of professors Antonio Martins Figueiredo Neto and Cristiano Pinto de Oliveira. Therefore the candidate will be a regular graduate student from this institute. Candidates should send an e-mail to (crislpo@if.usp.br) with undergraduation scholar records, curriculum vitae (including a list of publications), cover letter and a letter of recommendation. A distance interview will be held with the candidates. It is worthy to mention that even though the project is developed at IFUSP, the requirements of courses in this unity are very flexible and therefore candidates from other areas (Chemistry, Biology, etc) are certainly suitable for the project. Candidates with Master or PhD degree cannot apply for this opportunity.

The position is open to Brazilians and foreigners. The selected fellow will receive an initial FAPESP Direct-Doctorate of R\$ 2.043,00 (about USD 410,06 / tax-free) per month and Technical Reserve. The fellowship evolves each year being R\$ 2.168,70 (435,29USD) in the second year, R\$ 3.010,80 (604,311USD) in the third year and R\$ 3.726,30 (747,92USD) in the fourth year. The Technical Reserve of PD Grant is equivalent to 15% of the annual value of the scholarship and is intended to meet unforeseen expenses directly related to the research activity. The duration of the scholarship is 48 months, being renewed each year upon the approval of the annual activities report of the project.

If the DD grant holder lives in a different city and needs to move to São Paulo, he/she may be entitled to a grant-installation. More information about the FAPESP Direct Doctorate Fellowship as well as the requirements of the candidates is available at www.fapesp.br/bolsas/dd .

Interested candidates should apply until November 15th, 2021, sending an e-mail to Professor C. L. P. Oliveira at (crislpo@if.usp.br), with subject “DD-FAPESP” and the information described above in the text.