

Postdoctoral Position in Thermal Plasma Technologies, Technological Institute of Aeronautics – ITA, Brazil

The São Paulo Research Foundation (FAPESP), Brazil, announces a postdoctoral fellowship associated with a research project entitled “**Development of a thermal plasma pyrolysis and inerting process applied to the treatment of sludge produced in Sewage Treatment Stations**”. This project seeks to consolidate a collaborative network of research centers in order to clarify relevant aspects of the application of atmospheric pressure thermal plasma in material processing and energy generation. The postdoctoral position will explore the generation of Thermal Plasma for the development of studies of systems and thermal conversion processes of sludge from Sewage Treatment Stations into clean fuel gases suitable for use in the generation of steam or electric energy, as well as in inert solid material of high added value.

The research linked to the project will be developed at the Plasma and Process Laboratory (LPP) of ITA (www.lpp.ita.br) located at the São José dos Campos, SP, Brazil. We are looking for candidates with Ph.D. in plasma science, engineering or related field and experience in thermal plasmas and their application in material processing. The postdoctoral researcher must have excellent oral and written communication skills and the ability to supervise graduate students and collaborate with a team of multidisciplinary researchers.

The nomination period for FAPESP's postdoctoral fellowship is generally 2 years, although an extension can be discussed. The selected candidate will receive R\$ 8.479,20 per month and a Technical Reserve equivalent to 10% of the annual scholarship to cover expenses directly related to the research activity. If the postdoctoral fellow lives outside the city where the research institution is located and needs to move, he/she may be entitled to an installation allowance. More information about the FAPESP Postdoctoral Scholarship is available at www.fapesp.br/bolsas/pd.

Candidates for the position must provide a letter of interest describing in detail their previous work experience, an updated CV and two letters of recommendation (in PDF format). All documents must be sent to **Prof. Gilberto Petraconi Filho** (petra@ita.br or petrafilho@gmail.com) until January 10, 2023. Candidates with the greatest potential can be invited to an online interview.