



FEDERAL INSTITUTE OF MARANHÃO
GRADUATE PROGRAM IN MATERIALS ENGINEERING
DEPARTMENT OF MECHANICAL AND MATERIALS

Call for applications for Postdoctoral position

Professor Edson Miranda Jr. (<http://lattes.cnpq.br/9782653543954493>) has 1 (one) position open for a postdoctoral position in the area of DYNAMICS AND VIBRATION OF COMPOSITE METAMATERIALS FOR AERONAUTICAL APPLICATION, in the Department of Mechanical and Materials of the Federal Institute of Maranhão (for the simulation part, it is not necessary to be full-time in São Luís-MA).

The position is to work in a project funded by CNPq, specifically with experiments and modelling of dynamical systems, wave propagation, and passive vibration control applied to aeronautical engines. The researcher will have the opportunity to collaborate with outstanding research groups, mainly, in Brazil and Italy.

The candidate should have a doctorate degree in Mechanical Engineering or related areas. Knowledge and experience on finite element modelling, wave propagation, periodic systems, mechanical vibration, composite materials, and signal processing are desired. Knowledge of MATLAB and good English are mandatory. Knowledge of COMSOL software, plane wave expansion (PWE) approach, and composite material manufacturing are differentials.

The scholarship is of R\$ 4.500,00 (SET-C) from now (april/2023) until 11/17/2025 (the end of the project).

The interested should send the following documents to **edson.jansen@ifma.edu**. The documents are:

1) A detailed CV with research experience and average graduate degree results.

2) A motivation letter detailing how your research profile and interest relate to the project.

3) A recommendation letter from researcher or professor.

An online interview shall be scheduled after the evaluation of the documents.