

(BL231/2022-IST-ID)

Research Studentships for Master or Integrated Master students

Applications are open for one (1) Research Studentship(s), within the framework of project/R&D institution (NanoCOM/IST-ID, (PTDC/NAN-MAT/29989/2017), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Materials Science and Engineering (CTM-NAN)

Admission Requirements: *To be enrolled at an integrated master or a master.*

Workplan: The fellow will conduct research on advanced cooling of nanofluids through convective heat transfer experiments in heat transfer channel. For experiments different types of nanofluids are to be prepared and their thermophysical properties and features are to be characterized. Finally, analyzing results to evaluate cooling capabilities of nanofluids. Fellow is also expected to write paper and a final report.

Legislation and Regulations: Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968>.

Workplace: The work will be developed at IN+ of Instituto Superior Técnico, under the scientific supervision of Professor Sohel Murshed.

Duration: The research fellowship(s) will have maximum duration of 5 months. It's expected to begin in 12/2022 and the fellowship is not renewable.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € 875,98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: *Curriculum and research experience evaluation** with the respective weight of 70% and 30%.

Composition of the selection Jury: Prof. Sohel Murshed; Prof. Miguel Abreu de Almeida Mendes; Prof. Jose Chaves Pereira

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by email.

Deadlines and procedures of complaint and appeal. A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

Application deadline and formalization: The call is open from November 11 until November 24, 2022.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/>); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course (Master, Integrated Master); v) motivation letter;

Applications must be submitted to the email: smurshed@tecnico.ulisboa.pt

