

(BL99/2023-IST-ID)

### Research Studentships (for Master or Integrated Master students)

Applications are open for one Research Studentship, within the framework of project **pUc-LED - Phosphor-Up-converted white LEDs assisted by 1-D photonic crystals/CQE**, of reference PTDC/CTM-CTM/0757/2021, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Physical chemistry, Materials and NanoSciences, and related areas

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

**Workplan:** This fellowship involves research tasks to develop white light LEDs assisted by photonic crystals doped with lanthanide ions by sol-gel processing and ion-implantation.

**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 Centro Tecnológico e Nuclear (CTN) of Instituto Superior Técnico (IST), under the scientific supervision of Professor Eduardo Jorge da Costa Alves.

**Duration:** The research fellowship will have the duration of 6 months. It's expected to begin in June / 2023, 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 € 930,98, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be the following: background and academic degree, relevant experience for the project (sol-gel processing and relevant characterization techniques on the topic of the project) and motivation letter, with the respective weight of 40%, 40%, 20%. An individual interview will be held in case of a tie.

**Composition of the selection Jury:** Professor Rui Manuel Amaral de Almeida, Professor Luís Filipe Santos, Professor Eduardo Jorge da Costa Alves.

**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 April 6 until June 20, 2023.

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 or Integrated Master) or at a course that does not award an academic degree; v) motivation letter;

Applications must be submitted to the email: [rui.almeida@tecnico.ulisboa.pt](mailto:rui.almeida@tecnico.ulisboa.pt)