

Post-doctoral fellowship

The UNIDEMI (<http://www.unidemi.com/>) at the Department of Mechanical and Industrial Engineering, at Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa (FCT-NOVA), Portugal, invites applications for one post-doctoral fellowship in the field of Industrial Engineering:

- 1. Admission Requirements:** PhD in Industrial Engineering or related areas, preferably with previous hands-on experience on life cycle assessment methodologies. Previous experience in value chain analysis, sustainability and risk assessment will also be considered as relevant skills. Proficiency in English language is a prerequisite.

The following individuals may apply to this:

- Portuguese citizens, or citizens of other European Union member states;
- Citizens of other countries who hold permanent residence permits in Portugal or who hold the status of long-term resident, under the terms of Law 23/2007 of July 4, amended by Law no. 29/2012 of August 9;
- Citizens of other countries with whom Portugal holds reciprocity agreements;
- Citizens of other countries, through a preliminary personal interview.

2. Work Plan:

1. Identification of economic, occupational health and safety (H&S), environmental and social impacts of additive manufacturing technologies.
2. Development of a LCA/LCC parametric model to assess additive manufacturing technologies.
3. Proposal of scenarios for modelling sustainable additive manufacturing processes.

- 3. Rules and Regulations:** Law Nr. 40/2004, of 18th August, altered and republish by Decree-Law nº 202/2012 of August 27th (Scientific Research Fellow Statute) and altered by the Decree-Law nº233/2012 of October 29th and by the Law nº12/2013 of January 29th. Regulations for Advanced Training and Qualification of Human Resources, I.P in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>).

- 4. Working location and supervisor:** The work is to be carried out at the Department of Mechanical and Industrial Engineering, at Faculdade de

Ciências e Tecnologia, Universidade NOVA de Lisboa (FCT-NOVA), under the scientific supervision of Doctor Helena Carvalho and Doctor Celeste Jacinto.

5. **Fellowship duration:** the fellowship is for 6 months, eventually renewable for another period of 6 months.
6. **Salary and benefits:** According to the regulations of the FCT Scientific Fellowships in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>) the net salary will be 1495 €/month, which will be paid monthly by bank transfer. The fellow will be covered by a personal accident's insurance and can contribute voluntarily to the national social security system, according to Decree-Law nº 40/89, of 1 February.
7. **Selection methodology:** The selection will run in two phases. In the first phase, and using the following parameters, candidates will be ranked according to their curricula vitae:
 - a) Previous experience and background according to the “admission requisites” (maximum 30 points).
 - b) Adequacy of the scientific area of expertise (maximum 10 points).
 - c) Scientific production - scientific papers, oral and poster communications in scientific meetings (maximum 20 points).

The three candidates with the highest number of points in the 1st phase will be selected for the 2nd phase.

The final rank of the candidates will be made according to the following:

- a) Curriculum evaluation (1st phase, maximum 60 points).
- b) Interview (maximum 40 points).

The jury holds the right not to choose any candidate if in their opinion no one fulfills the requirements.

8. **Application Procedure:** Candidates should send by email, written in English, the following materials in one PDF file:

- (a) Motivation letter
- (b) Curriculum vitae
- (c) PhD Certificate
- (d) List of publications and a couple of common research identifiers (e.g. Scopus ID, Researcher ID (WoS), ORCID, etc.)
- (e) Identity document (ID card)

Applications should be sent to: hmlc@fct.unl.pt with the subject “Application to Post-doctoral fellowship”.