



Universidade do Minho

DST/IBS Chair Position Vacancy



Summary:

The DST/IB-S Chair is promoted by the DST company and the Institute of Science and Innovation for Bio-Sustainability (IB-S), and will be based at the University of Minho, in Guimarães. The IB-S (www.ib-s.uminho.pt) is a new infrastructure of the University of Minho, involving a partnership with several companies, with the goal of promoting sustainable development and competitiveness through multidisciplinary solutions that guarantee a balance between ecosystems and the built environment.

This Chair is open to qualified and motivated candidates capable of leading and implementing an ambitious research plan within the subject “*Construction of the future: Automation and modularization*”. The Chair holder should lead applied research in strict collaboration with the company, promote research projects and secure financing to support the planned research work.

The topics for the Chair are as follows:

- Building Information Modelling and Design-Production Integration
- Robotics, Automation and Industrialization of Construction Processes
- Innovative Materials and Systems for Industrialized Construction
- Reusable and Modular Systems for Construction Rehabilitation in a Circular Economy

Selection Process:

The candidates should present the following elements as part of their application:

- A cover and motivation letter
- Detailed résumé
- Short résumé (maximum of 2 pages)
- Proposed Plan of Action (double spaced document with a maximum of 5 pages, including a brief description, methodology, expected results, schedule and expected contribution to the Chair objectives).

The short-listed candidates will be interviewed by a committee involving DST and IB-S.

Proposed Action Plan:

The Action Plan should be prepared taking into account the following objectives, to be achieved in a period of 3 years:

- Development of a research dynamic relevant to the Chair topics, with visibility and impact at national and international level;
- Leadership and establishment of a highly qualified, motivated, multidisciplinary and competent research team to pursue the scientific and technological development objectives of the Chair;
- Creation of the necessary conditions for financial self-sustainability of the team and the Chair itself;
- Implementation of processes for innovation and valorisation of the developed scientific knowledge with technology transfer for the industrial settings with patent development and added value products;
- Establishment of cooperation relationships with the business and industrial sectors.

Qualifications:

The following (non-compulsory) pre-requisites will be positively evaluated:

- Hold a PhD in Engineering or similar field for a minimum of 5 years with relevant scientific material production, which includes research project management;
- Possess previous, relevant, working links with the industrial and business sectors, be it as a technical job in innovative companies, as experience in research and/or innovation departments, or as a leading managerial job;
- Training experience demonstrated by lectures or workshops, coordination of teaching courses in higher education institutions, or coordination of courses or training courses;
- Demonstrate creativity, good English skills, proactive attitude and leadership qualities.

Duration:

The Chair duration is planned for 3 years, with annual evaluation of the established plans objectives completion. These conditions can be adjusted per the availability of the selected candidate.

Salary and conditions:

The salary will be in agreement with candidate's résumé and can be equivalent to a Contract Assistant, Associate or Full Professor in accordance with the established salary scales in Portugal. The position can be held as full-time (preferred) or part-time.

The Chair includes funding for supporting the Action Plan, in terms of laboratory access, consumables and human resources for research.

Applications:

The applications with the requested elements should be sent, exclusively in digital format, until **January 15, 2017** to the Head of the Selection Committee: Prof. Paulo B. Lourenço / sec-ib-s@ibs.uminho.pt. Inquiries should be sent to the Executive Director of IB-S: Prof. Tiago Miranda / diretor@ib-s.uminho.pt.