



Universidade do Minho  
Escola de Engenharia

# ENGINews

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## Highlights



### **Applications to FCT funding submitted by the EEUM's research units with excellent results**

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The evaluation of R&D units which the Foundation for Science and Technology (FCT) conducted aimed at strengthening the role of the R&D units as fundamental actors in supporting a modern and competitive R&D system. The evaluation was carried out in two stages:

- 1<sup>st</sup> stage (eliminary) – led to granting three classifications: Good, Fair and Poor.
- 2<sup>nd</sup> stage - led to granting five classifications: Exceptional, Excellent, Very Good, Good, Fair and Poor.

In cooperation with the European Science Foundation (ESF), the evaluation was carried out by evaluation panels organized by scientific areas, composed by 4 or 5 specialists of internationally recognized merit and competence.

A total of 322 applications were evaluated nationally, from which 11 were classified as Exceptional (3%), 56 as Excellent (16%) and 104 as very Good (32%).

The School of Engineering registered 10 applications submitted. According to the recent results, 90,9% of the EEUM's researchers are included in applications classified as Very Good, Excellent and Exceptional. All applications have been granted funding. Eight of the applications were classified as Very Good or higher, which represents a significant improvement in reference to the previous evaluation.

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### **CEB's researchers create wound dressing to detect infections**

A team of researchers from the Centre of Biological Engineering (CEB) of the EEUM is working on wound dressings which, when placed over wound, are capable of detecting infections before they become visible.

The project InFact is coordinated by Artur Cavaco Paulo, professor at the Department of Biological Engineering (DEB) of the EEUM. The group has discovered the means to convert wound dressings into a diagnostic tool capable to inform both patient and therapist about the wound status, thus directing towards the following therapeutic step. The novel InFact technology will be translated into a low-cost, real-time diagnostic tool as a constituent part of a wound dressing material.

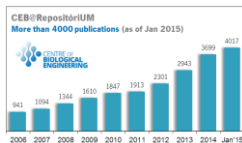
Tests are undergoing for this project which aims at contributing to the improvement of life quality of thousands of people suffering from chronic wounds or injuries which may lead to potentially fatal infections.

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## CEB has more than 4000 publications registered at RepositóriUM

The Centre of Biological Engineering (CEB) of the EEUM has passed the milestone of 4.000 research publications deposited in the institutional repository of the University of Minho. Just one year ago CEB went beyond the milestone of 3.000 publications.



The RepositóriUM aims at storing, preserving, disseminating and granting access to the intellectual production of the University of Minho in digital format. It also intends to maximize the visibility, use and impact of the University Minho's research through open access. CEB was one of the pioneer communities during the launch of the RepositóriUM, 11 years ago, and it is now its largest community, with open access to 93% of its deposited publications. The importance of the CEB's publications is confirmed by the 1.25 million items downloaded, with an average of 300 downloads per document.

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## Centre of Reference in Water Safety is launched

Campus of Gualtar, 29<sup>th</sup> January



The CERSA - Centre of Reference in Water Safety (in Portuguese, "Centro de Referência em Segurança da Água") is a joint project of the Universities of Minho (Portugal) and São Paulo (Brazil) which aims at boosting academic and scientific cooperation between these two institutions. The Centre's goal is to become an international reference in creating and developing knowledge in areas related to water safety and public health. According to its strategic plan, the CERSA will develop activities in the scope of research, training, auditing and consultancy. The official presentation will take place in two sessions, one in Portugal (Braga) and one in Brazil (Brasília).

The CERSA is coordinated in Portugal by José Vieira, professor at the Department of Civil Engineering (DEC) of the EEUM and counts on the collaboration of the Centre for Territory, Environment and Construction (CTAC) of the EEUM.

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## ENGIUM nº 4

The EEUM presents the 4<sup>th</sup> edition of its scientific publication ENGIUM – Engineering and Innovation at the University of Minho. The ENGIUM journal annually reviews the main outputs of the Research Centre’s activities at the EEUM, constituting a central element for marketing and disseminating the School’s scientific activity. This edition is devoted to Materials and Processes Engineering, showing real multidisciplinary examples of how research helps creating solutions for problems and challenges of the current and future society: technical and functional textiles, waste treatment and valorization, production techniques for functionalized materials, creation of innovative building materials and solutions for building rehabilitation, innovative road pavement, creation of compostable food packaging, among many others.

Five Research Centres with remarkable scientific activity in this area are presented: the Centre for Textile Science and Technology (2C2T), the Centre for Mechanical and Materials Technology (CT2M), the Centre for Territory, Environment and Construction (CTAC), the Institute for Polymers and Composites (IPC) and the Institute for Sustainability and Innovation in Structural Engineering (ISISE).



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## Events

### Week of the School of Engineering

Campus de Azurém, 22<sup>nd</sup> to 27<sup>th</sup> January

The EEUM organized the 11<sup>th</sup> edition of the Week of the School of Engineering. Commemorating the 40<sup>th</sup> Anniversary of the School of Engineering, the EEUM celebrated the contribution of Engineering towards the future of the country, innovation, employability and regional development and sustainability.

The Week of the School of Engineering included a Solemn Ceremony celebrating the 40<sup>th</sup> Anniversary of the EEUM, a Job Fair, the Graduation Ceremony and a full day devoted to Secondary Schools which included campus visits and experiences in laboratories.



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