



école  
normale  
supérieure

# Concours 2SEP ENS Rennes

## Session 2017 Epreuve écrite d'anglais

Durée 2 heures

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L'usage de tout dictionnaire est interdit.

# EPREUVE ANGLAIS

## Version et production écrite

A. Traduire en français le texte surligné en gras [ ] dans l'article suivant :

### **Research proposes new test on prosthetic legs in competitive sports**

Date: March 24, 2016

New research carried out at Bournemouth University, UK, investigates the use of lower-limb running prostheses (LLRPs) used in competitions by below-knee amputees. Due to significant controversy surrounding running prosthetic limbs in both the 2008 and 2012 Paralympic Games, this new research published in *Cogent Engineering* proposes new guidelines for prosthetic leg technology in international sporting events to prevent competitive advantage. The guidelines include the use of a dynamic drop jump technique to assess the quality of prosthetic legs as a new assessment strategy.

Dr Bryce Dyer, author of the research and Head of Research & Professional Practice, Department of Design & Engineering, Bournemouth University is the designer of performance prostheses used by elite cyclists in both the 2012 and 2016 Paralympic Games.

**['Prosthetic legs are a fascinating area of development for engineers and sports policy makers,' said Dr Dyer. 'They are only recently regulated, and more work needs to be done to understand the impact of different engineering solutions on sport itself. Previous research has been theoretical, or based on the impact of engineering on one particular athlete. This approach is more pragmatic, and more useful for policy makers.'**

**Detailed analysis of running amputee sprinting performance in the research will help sports officials to ascertain if any objective data can be found that would support claims of potential unfairness or significant technological impact on results in international races. This analysis can then be used to frame legislative guidance and regulation.] (118 words)**



#### Journal Reference :

1. Bryce Dyer, Zhongmin Jin. **An insight into the use and assessment of lower limb running prostheses in sport with a disability: A mixed method approach.** *Cogent Engineering*, 2016; 3 (1): 1158488 DOI: [10.1080/23311916.2016.1158488](https://doi.org/10.1080/23311916.2016.1158488)

# EPREUVE ANGLAIS

## Version et production écrite



### **B. Production écrite sujet I ou II (100 - 150 mots max.).**

**I:** In your opinion do prosthetic legs provide an unfair advantage?

**OU**

**II:** Should prosthetics be allowed in non-amputee events?

**FIN DE L'ÉPREUVE**