

# Prosthetics

Thursday 16 July, 1230 - 1630  
Centre for Defence Enterprise, Harwell

The Centre for Defence Enterprise is the Ministry of Defence's gateway for UK industry, academia and innovators to help ensure our Armed Forces are best equipped now and in the future.

CDE provides a rapid response with a range of advice, assistance and research funding. To help you better understand the challenges and needs of the UK's Armed Forces, CDE hosts monthly Seminars as an opportunity to meet MOD experts and decision makers.

The Ministry of Defence (MOD) is looking for innovative research to provide the best possible evidence-based care to help retain personnel in-service, minimise disability on discharge and meet the MOD's Duty of Care obligations. This CDE call focuses on two specific areas of treatment research related to amputation research and similar complex traumas.

Physiology and Repair Processes MOD wishes to gain insight into the optimal methods of treatment and improve understanding of the physiological processes that occur following amputation and/or complex trauma, both naturally and in response to rehabilitation.

- The influence of intensive rehabilitation techniques on central neuroplasticity and its contribution to phantom pain and sensation and functional recovery.
- The application of stem cell research in the management of the consequences resulting from trauma.
- The influence of robotic prosthetic systems on neuropathic pain, neuroplasticity and functional re-education.

Functional Restoration / Retraining MOD needs technology which is specifically designed to assess and/or maximise the function of Military amputees or those with complex gait affecting injuries.

Of significant benefit would be the development of functional analysis technology and biofeedback tools. These must be suitable for use with amputees with wide-ranging functional abilities to aid/optimize prosthetics prescription, assess/monitor progression and/or to compliment rehabilitation activities, e.g. by biofeedback.

These subjects covers a wide range of topics and will be of interest to a large spectrum of SMEs, academia and industries. There will also be the opportunity to learn more about the Centre for Defence Enterprise and the Ministry of Defence.

Spaces are limited and early application is advised via [www.science.mod.uk](http://www.science.mod.uk) . Confirmation of attendance and joining instructions / directions will be sent when registration has closed. MOD does not charge for attendance at CDE seminars. Lunch & Refreshments provided.