

## IMPACT

# (The Institute for Innovative Materials, Processing and Numerical Technologies)

### Project Description

IMPACT is a state-of-the-art research centre specialising in materials, processing and numerical technologies.

This Centre of Excellence forms part of Swansea University's College of Engineering and delivers a high impact, transformative research environment for academia-industry partnerships and collaborative, fundamental research.

The aim of IMPACT is to future proof the global advanced engineering and materials industry through collaborations that enhance research capacity and increase competitiveness.

### Delivery Model

IMPACT offers access to world-class expertise driven by intensive collaboration between industry and academia – enabling a high impact, transformative research environment and making it a unique colocation facility for academia-industry partnerships.

A key objective is to help businesses and industry find innovative solutions. Through our areas of expertise, we can offer insight into the latest research developments coupled with our state-of-the-art laboratories, workshop and specialised equipment.

IMPACT's academia-industry collaborations will provide companies with unique access to:

- State-of-the-art research and co-location facilities within a new purpose-built research institute

- World-class academic experts from the College of Engineering
- Highly qualified researchers from across the University applying a multi-disciplinary approach

### Geographical Coverage

The project will benefit Bridgend within the Cardiff Capital Region as well as Swansea, Neath Port Talbot and Carmarthenshire.

### Specific Targets

- No. improved research infrastructure facilities
- No. researchers working in improved research infrastructure facilities
- Amount of research funding secured (£)
- No. enterprises cooperating with supported research institutions
- No. new researchers in supported entities

### Contact Details

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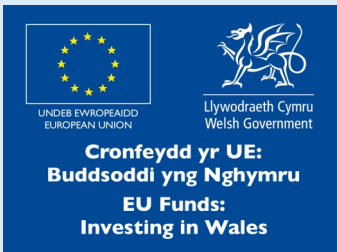
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## IMPACT

# (Y Sefydliad ar gyfer Deunyddiau Arloesol, Prosesu a Thechnolegau Rhifol)

### Disgrifiad o'r Prosiect

Mae IMPACT yn ganolfan ymchwil o'r radd flaenaf sy'n arbenigo mewn deunyddiau, prosesu a thechnolegau rhifol.

Mae'r Ganolfan Ragoriaeth hon yn rhan o Goleg Peirianeg Prifysgol Abertawe ac yn darparu amgylchedd ymchwil trawsnewidiol effeithiol iawn ar gyfer partneriaethau academaidd diwydiannol ac ymchwil sylfaenol, gydweithredol.

Nod IMPACT yw diogelu'r diwydiant deunyddiau a pheirianeg uwch byd-eang yn y dyfodol drwy gydweithrediadau sy'n gwella capasiti ymchwil ac yn cynyddu cystadleurwydd.

### Model Cyflawni

Mae IMPACT yn cynnig y gallu i gael gafael ar arbenigedd o safon fyd-eang a ysgogwyd drwy gydweithio dwys rhwng y diwydiant a'r byd academaidd – gan alluogi amgylchedd ymchwil trawsnewidiol effeithiol iawn a'i wneud yn gyfleuster cydleoli unigryw ar gyfer y partneriaethau academaidd-ddiwydiannol.

Un o'r amcanion allweddol yw helpu busnesau a diwydiant i ddod o hyd i atebion arloesol. Drwy ein meysydd arbenigedd, gallwn gynnig mewnwelediad i'r datblygiadau ymchwil diweddaraf ynghyd â'n labordai o'r radd flaenaf, ein gweithdy a'n hoffer arbenigol.

Bydd cydweithrediadau IMPACT rhwng y byd academaidd a'r diwydiant yn darparu cyfle unigryw i gwmnïau gael gafael ar:

- Gyfleusterau ymchwil a chydleoli o'r radd flaenaf mewn sefydliad ymchwil pwrpasol newydd

- Arbenigwyr academaidd o'r radd flaenaf o'r Coleg Peirianeg
- Ymchwilwyr â chymwysterau uchel o bob rhan o'r Brifysgol sy'n defnyddio dull amlddisgyblaeth

### Cwmpas Daearyddol

Bydd y prosiect o fudd i Ben-y-bont ar Ogwr ym Mhrifddinas-Ranbarth Caerdydd yn ogystal ag Abertawe, Castell-nedd Port Talbot a Sir Gaerfyrddin.

### Targedau Penodol

- Nifer y cyfleusterau seilwaith ymchwil sydd wedi eu gwella
- Nifer yr ymchwilwyr sy'n gweithio mewn cyfleusterau seilwaith ymchwil sydd wedi eu gwella
- Swm y cyllid ymchwil a sicrhawyd (£)
- Nifer y mentrau sy'n cydweithio â sefydliadau ymchwil a gynorthwyr
- Nifer yr ymchwilwyr newydd mewn endidau a gynorthwyr

### Manylion Cyswllt

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