

Computational Foundry

Project Description

The Computational Foundry is backed by £17.1million from the European Regional Development Fund, and will drive research into computational and mathematical sciences, making Wales a global destination for computational scientists and industrial partners.

Delivery Model

The Computational Foundry operation will deliver a programme of activity through:

- The design, planning and procurement of state-of-the-art research infrastructure to house the Computational Foundry, approximately 7,455m² in size.
- The construction and opening of the Computational Foundry building.
- The allocation of leading researchers currently employed at Swansea University to the delivery of the Computational Foundry.
- The recruitment of 31 internationally leading researchers to expand the current research teams and programmes.
- A focussed, appropriately resourced approach to research development that will secure a minimum of £21.25 million in research income by 2023.

Geographical Coverage

The project will benefit all local authorities across the West Wales and Valleys area.

Specific Targets

The indicators associated with the Computational Foundry operation are intricately aligned to the ERDF Operational Programme

Specific Objective 1.1 (to increase the success of Welsh research institutions in attracting competitive and private research funding) through the establishment of a world-class research and development facility to increase the region's share of competitive and private research funding.

Five indicators have been identified:

1. No. improved research infrastructure facilities
2. No. researchers working in improved research infrastructure facilities
3. No. enterprises cooperating with supported research institutions
4. Amount of research funding secured
5. No. new researchers in supported entities

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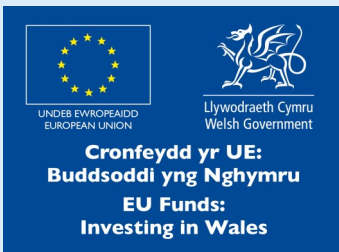
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🔗 www.swansea.ac.uk/science/computationalfoundry/

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Ffowndri Gyfrifiadurol

Disgrifiad

Mae £17.1 miliwn gan Gronfa Datblygu Rhanbarthol Ewrop yn cefnogi'r Ffowndri Gyfrifiadurol, a bydd yn arwain ymchwil ym maes gwyddorau cyfrifiadurol a mathemategol, gan wneud Cymru'n gyrchfan fyd-eang af gyfer gwyddonwyr cyfrifiadureg a phartneriaid diwydiannol.

Model Cyflawni

Bydd gweithrediad y Ffowndri Gyfrifiadurol yn cyflawni rhaglen o weithgarwch drwy:

- Dylunio, cynllunio a chaffael seilwaith ymchwil o'r radd flaenaf i fod yn gartref i'r Ffowndri Gyfrifiadurol, tua 7,455m² o ran maint.
- Adeiladu ac agor adeilad y Ffowndri Gyfrifiadurol.
- Dyrannu ymchwilwyr blaenllaw a gyflogir gan Brifysgol Abertawe ar hyn o bryd i gyflawni'r Ffowndri Gyfrifiadurol.
- Recriwtio 31 o ymchwilwyr blaenllaw yn fyd-eang i ehangu'r timau a'r rhaglenni ymchwil cyfredol.
- Dull penodol o ddatblygu gwaith ymchwil ag adnoddau priodol, a fydd yn sicrhau o leiaf £21.25 miliwn o incwm gan waith ymchwil erbyn 2023.

Cwmpas Daeryddol

Bydd y prosiect o fudd i bob awdurdod lleol yn rhanbarth y Gorllewin a'r Cymoedd.

Targedau Penodol

Mae'r dangosyddion sy'n gysylltiedig â gweithrediad y Ffowndri Gyfrifiadurol yn cydfynd yn gywrain ag Amcan Penodol 1.1 o Raglen Weithredol ERDF (sef gwella llwyddiant

y sefydliadau ymchwil yng Nghymru o ran denu cyllid ymchwil cystadleuol a phreifat) drwy sefydlu cyfleuster ymchwil a datblygu o safon fyd-eang er mwyn cynyddu cyfran y rhanbarth o gyllid ymchwil cystadleuol a phreifat.

Nodwyd pum dangosydd:

- Nifer y cyfleusterau seilwaith ymchwilio sydd wedi eu gwella
- Nifer yr ymchwilwyr sy'n gweithio mewn cyfleusterau seilwaith ymchwilio wedi eu gwella
- Nifer y mentrau sy'n cydweithredu â sefydliadau ymchwil a gefnogir
- Swm y cyllid ymchwil a sicrhawyd
- Nifer yr ymchwilwyr newydd mewn endidau a gefnogir

Manylion Cyswllt

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