



Be part of a **community**
of likeminded innovators





Aberystwyth Innovation and Enterprise Campus (AIEC)

AIEC will provide **world leading facilities and expertise** for the agri-tech industry and the bio-science sector.

Set between the Cambrian Mountains and the Irish Sea, this £40.5M campus will be a progressive environment to encourage business and academic collaboration to flourish.

AIEC will offer a range of high quality facilities to support innovation, enabling commercial enterprises to grow, prosper and drive economic growth in the food & drink, bio-processing and biotechnology sectors throughout Wales and beyond.

Planned Facilities



Future Foods



Bioprocessing & Biorefining



Analytical Science



Office Space



Campus Hub

Future Foods

A food grade environment for molecular testing, validation and improvement of existing and novel materials as foods including nutritional content, shelf life and consumer preferences.



Food safety, quality and improvement:

- **Storage and packaging:** storing, wrapping and packing to assess the effects of thermal environment modulation and modified atmospheres on shelf life of red meat, poultry, dairy and other liquid products.

- **Food characteristics:** measurement of the physical characteristics of liquid and solid foods including colour, pH, rheology and tensile strength; microbial identification and exploration of microbial loadings and new anti-microbial interventions.
- **Food quality and nutritional value:** comprehensive profiling, validation and support of product claims. Analyses including fatty acids, lipids and micro and macro-nutrients, oxidation products and vitamins, gross quality factors and fibre content, total mineral and trace elements.

Exploration of new food materials:

- **High value components from varied sources:** food grade bulk processing from biomass (food crops) and waste

streams and extraction of high value chemicals and food components.

- **Bioactive discovery:** general analyses of the functionality of natural products, food materials and food products including discovery and profiling of bioactive metabolites at ultra-high resolution, quantification of metabolites in crops and foods and new analytical test development.

Consumer testing:

- **Flavour, texture, odour and more:** sensory booths served by a dedicated kitchen incorporating computerised response system for real time data collection and collation and a professional environment to host consumer testing panels.



Bioprocessing and Biorefining

A pilot scale facility for extracting, analysing and optimising chemicals from biomass and waste stream materials with integral industrial biotechnology and food grade environment.

Processing of biomass into fuel and food products:

- **Primary Processing:** fractionation of wet feedstocks and milling and densification of dried feedstock. Continuous counter current methods for high efficiency aqueous extraction of bulk biomass and continuous drying with chilled holding tanks on site.
- **Downstream Processing:** size fractionation of suspended and dissolved solids and continuous solid-liquid separation of liquid feedstocks and food-grade quality extracts and concentrates.
- **Fermentation:** conventional fermentative methods and novel biotech, approaches to fermentation at an industrially relevant scale.
- **Product Finishing:** a high hygiene area for finishing and bagging small scale products in a controlled environment suitable for food, pharmaceutical and cosmetics applications.

New catalysts and process improvement:

- **Bio-prospecting, extraction and sample analysis:** extraction and fractionation of biorefining feedstock to assess value components in pure and complex mixtures at a range of scales. Analyses include fuel specification and criteria and assessment of product claims. Natural product crystallisation facilities to explore purity and identity.
- **Process optimisation:** accelerated industrial biotechnology using state-of-the-art phenotyping and fermentation platforms for new, robust microbial strains that work at industrial scale. Fully equipped for both aerobic and anaerobic microbiological applications facilities include synthetic biology approaches.

Future agri-tech:

- **New low carbon (green) materials and vertical farming:** technology for developing new low carbon materials and the optimising of vertical farming and green infrastructures. Optimising lighting and nutrients in hydroponic systems and other new platforms for crop culture, characterising nutritional quality to support vertical farming and exploring new green infrastructures.

Analytical Science

For analysis of nutrient absorption and discovery and validation of biomarkers of food functionality.

- **Biomarkers of nutrient absorption:** quantitative analyses using high resolution, high throughput technologies. Assisting the development of biomarkers and diagnostic tests from clinical samples including metabolite and bioactive quantification in urine and blood and metabolite fingerprinting in human biofluids, crops and food samples. Validation of biomarkers of poor absorption and disease.

Supported with processes for seeking ethical approval and fully equipped with biohazard containment for handling of human tissue and biofluids with an associated secure -80°C biobank facility.

- **Analytical Chemistry:** compositional testing of a range of materials including soils, plants, silage, animal feeds, energy crops and forages. Following strict quality control procedures via independent performance testing schemes and UKAS accreditation to ISO 17025.
- **Data analysis and interpretation:** access to High Performance Computing clusters and state of the art data processing.





Be part of our community of likeminded innovators



Campus Hub

Meeting and Event spaces

Campus Hub – a welcoming social space for both formal and informal events to help spark chance discussions, encourage creative thinking and problem solving, in a collaborative community with café facilities and flexible office and lab spaces for likeminded innovators.

Office Space

The Innovation Campus Office Building

The home of our new **business community** – **come and join us** – available now!

The Aberystwyth Innovation and Enterprise Campus Office Building contains 17 rentable offices varying in size from 8m² to 23m². Our fully serviced offices hold between 1 and 4 persons and every office is light and bright with open views.

These highly finished professional spaces are for entrepreneurs and businesses to grow and thrive.

Our Office Building has ample parking, high speed WiFi and meeting rooms of its own. Offices are available for short leases on a full time and part time basis.





Office Space Membership Packages available



(priced m²
per month)



(£90 per month)



(£50 per month)

Membership Packages

A light spacious and newly renovated, professional private office	●		
A designated desk when working on or visiting campus		●	
Full time presence in a community of businesses and scientists	●		
Cleaning and maintenance services, recycling and refuse facilities	●	●	
Professional work environment amongst likeminded businesses	●	●	
Your company advertised on the AIEC website	●	●	●
A trading address	●	●	●
Access to events on campus	●	●	●
A place to host meetings with colleagues and collaborators	●	●	●
Start work immediately	●	●	●

Resident Member

A fully furnished office with telephone landline and 24/7 electronic access to the office building with unlimited working hours. Each resident member will have a lockable private office with heating, electricity, censored lighting, security and secure high speed internet and Wif-Fi.

Resident members will also have free access to high quality meeting room facilities, break-out spaces including a shared kitchen area and on site café, and a dedicated car parking space.

Benefits:

- A light, spacious and newly renovated, professional private office
- Full time presence in a community of businesses and scientists
- Co-location with AIEC Team
- Move straight in and start to work immediately
- Access to events on Campus
- Your company advertised on the 'Residents' area of the AIEC website
- Cleaning and maintenance included
- Refuse and recycling facilities

Associate Member

A fully furnished, shared office space and dedicated telephone landline. 40 hours electronic access to the office building per month during working hours with heating, electricity, censored lighting, security and secure high speed internet and Wi-Fi.

Associate members will also have 4 hours free access to high quality meeting room facilities, break-out spaces including a shared kitchen area and on site café and a dedicated car parking space.

Benefits:

- A designated desk when working on or visiting the Campus
- Co-location with AIEC Team
- Move straight in and start to work immediately
- Access to events on Campus
- A trading address and professional work environment
- Your company advertised on the AIEC website
- Cleaning and maintenance included
- Refuse and recycling facilities

Virtual Member

Access to AIEC's network and online community as well as meeting rooms when visiting campus and a trading address with secure postal storage.

Benefits:

- A trading address and secure postal mail storage
- Your company advertised on the 'Virtual Members' area of the AIEC website
- Access to Meeting Rooms – facilities charged at 50% discount on standard rates – bookable, subject to availability



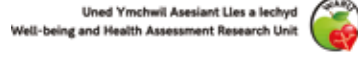
Other initiatives co-located with Aberystwyth Innovation and Enterprise Campus



BEACON Biorefining Centre of Excellence
www.beaconwales.org



National Plant Phenomics Centre
www.plant-phenomics.ac.uk



Well-being and health Assessment Research Unit
www.waru.org.uk



Institute of Biological, Environmental and Rural Sciences
www.aber.ac.uk/ibers

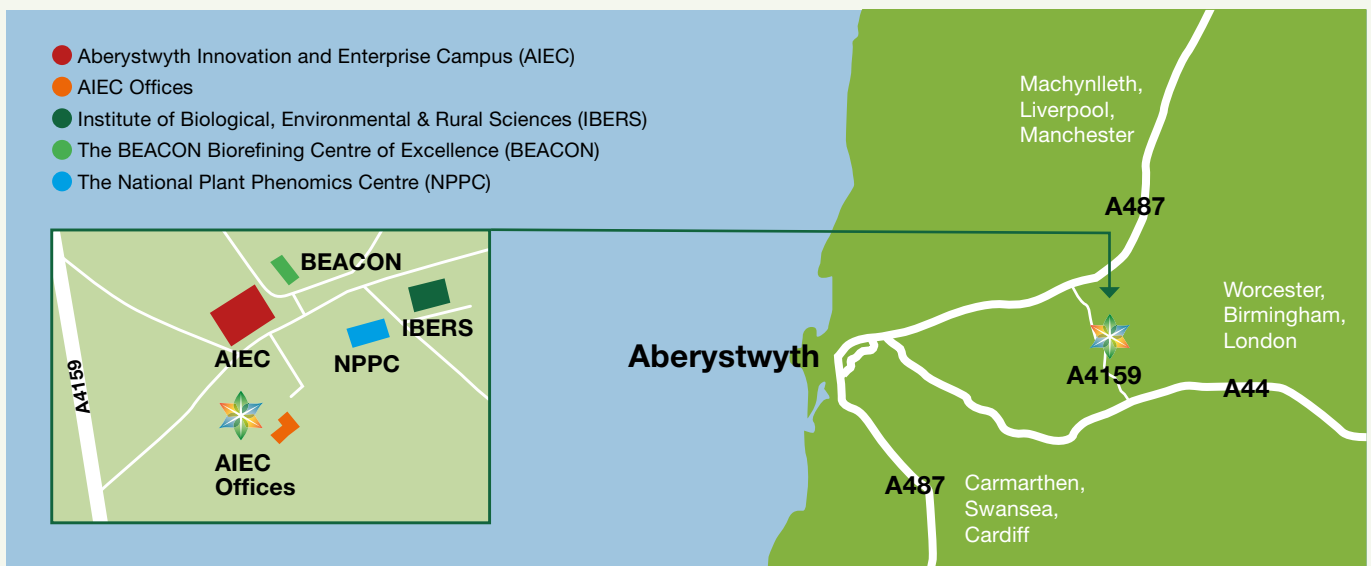
Office accommodation available today for start-up and scale-up companies

Contact us: AIEC Offices, Gogerddan, Penrhynoch, Aberystwyth, Ceredigion, SY23 3EE

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Aberystwyth Innovation and Enterprise Campus



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