

# Croeso nôl Welcome back



# Cynyddu nifer y bobl sy'n gwneud prentisiaethau

Justine Fosh Bwrdd Diwydiant Bwyd a Diod Cymru

Increasing uptake of apprenticeships

Justine Fosh Food and Drink Wales Industry Board





# Lansio Prentisiaeth Peirianneg Bwyd a Diod Lefel 3 newydd

John Griffiths, Princes Food Simon Yorke, City & Guilds

## Launching the new Level 3 Food & Drink Engineering Apprenticeship

John Griffiths, Princes Food Simon Yorke, City & Guilds







### **Food and Drink Wales**

## Invest in Skills Conference – 8th Feb 2018

## Food and Drink Engineering Apprenticeship

John Griffiths, Engineering Director, Princes Ltd

Simon Yorke, Lead Technical Advisor, City & Guilds



























## **Engineering Apprenticeships**

- Introduction
- Who we are
- Why are we here The Problem
- The 5 step approach
- What have we achieved to date
- Where do we go from here





### **Introduction – John Griffiths**

- John Griffiths Engineering Director Princes Ltd (Chairman of the Food and Drink Engineering Industry Skills Partnership)
- Born Bangor Sometime last Century!!!
- Dragged up in Dwygyfylchi!!!
- Started career in 1983 As an Apprentice Toolmaker at Hotpoint Llandudno Junction (GEC at the time, Then Marconi, Then GE, Then Indesit, Then left!!!)
- Progressed through vocational route to Post Graduate level qualifications Transcended Sectors - Brown/White Goods, Automotive and FMCG





### Introduction – Simon Yorke

- Simon Yorke Lead Technical Advisor at City & Guilds. Principally working with the Engineering and Manufacturing sector
- Born St Helens Family originally from Deeside/Flintshire.
- Started career in 1995 As an Apprentice Electrician at a local company.
- Progressed onto higher level qualifications in Electrical and Electronic Engineering.
- Became a college lecturer, became head of department and worked as a technical consultant prior to joining City & Guilds full time.





### **Our Business**

 The name behind many brands and own label products



- Manufacture a range of products in sites throughout the UK from Wales to Wisbech as well as internationally
- Source ingredients from across the world
- Committed to manufacturing in Wales
- Cardiff site is a Centre of Excellence for Fruit Juice production





## **Issues faced – Quantity of Food Engineers**

- We have a high demand for Engineers now & it will increase
  - Ageing workforce
  - Increased introduction of automation across our factories
  - Industry 4.0 will only accelerate this demand
- Historically we have not done enough we train few engineers (circa 250 apprentices) per annum UK wide?
- Attraction
  - Our industry is seen as a poor relation to others and not as an industry of choice for an Engineer.
  - Poor visibility of the career pathways
- Nature of the industry
  - We are a truly unique manufacturing industry due to
    - Compliance requirements, processes, machinery, volumes and speed and the variable nature of food ingredients





## **Engineering Demographics – Example ABC Ltd 2013**

- 96 Engineers looking to retire in 10 years
- 191 in next 20 years
- Current intake12 Apprentices per year

	No of Engineers % of Total	
Age Range	2014	Population
55+	96	31%
45 - 54	95	30%
35 - 44	50	16%
26 - 34	36	12%
16 - 25	35	11%
Total	312	100%

- It will take 16 years assuming no other natural wastage to plug the gap!!!
- Apprenticeships are a long term sustainable way of maintaining continuity of the required skills to run our businesses efficiently and effectively and ensure we are here to stay!!!





## **Engineering Demographics – Example ABC Ltd 2017**

	No of Engineers	% of Total	
Age Range	2017	Population	Difference
55+	114	32%	18+
45 - 54	109	30%	14+
35 - 44	54	15%	4+
26 - 34	43	12%	7+
16 - 25	41	11%	6+
Total	361	100%	49+

**Apprentices** 

- 114 Engineers looking to retire in 10 years 3% attrition per year
- 223 in next 20 years 65% of workforce
- Apprentice intake 4%
- Attrition 3% Retiring 6% Leavers
- We have a gap in supply and demand
- Need to understand end game No's & skills





## Issues faced – Quality of training

- Previous Apprenticeships for Food and Drink Engineers have not been designed around the industry needs.
- Delivery takes place in providers who often lack understanding of the sector.
- Lack of industry critical mass means that training providers classes are mixed and from industries with very different engineering needs
  - Result is 'Vanilla' delivery of apprenticeships.
- Industry has become accustomed to vanilla to such an extent that it doesn't recognise the shortcomings or consider an alternative





## What and who is going to change this?

- It has to be us, the industry, that leads change
- It is a UK wide issue requiring solutions of scale and quality
- Solutions need to be designed for all but with implementation according to devolved nations approaches.
- Step 1 Articulate what knowledge, skills and behaviours we need from Food Engineers to set a single standard.
- Step 2 Design a programme, including a nationally recognised qualification and supporting materials to support providers to deliver.
- Step 3- Find providers who both understand food and can deliver high quality, industry relevant engineering trainers.
- Step 4 Aggregate demand from food and drink employers to support the providers not just with learners but with equipment, cpd and even delivery support.
- Step 5- Promote and market the apprenticeship to young people.





## **Step 1 - Setting the standard Why?**

- To clearly articulate what is expected as an output
  - Employer
  - Employee
  - Providers
- To ensure acquired skills and learning are applied in an optimum manner.
- To ensure relevance.
- To provide Focus.
- To set a high bar.
- For the Apprentice to hit the ground running!





## Step 1 - Setting the Standard

Unilever

- Standard is the same across all nations used in England as the 'Trailblazer' Apprenticeship.
- Over 50 food and drink companies have input into this from around the UK.

2 Sisters Food Group

Articulates the core knowledge and skills (both engineering and food processing) requirement for all maintenance engineers in the food and drink industry.

Identifies the additional ones required to be

Glanbia

Mechanically biased.

Multiskilled.

**Behaviours** –Profiles the ideal behaviours of a Maintenance engineer.

Muller

Describes levels of performance – including **excellence**.

Morrison's





## **Step 2 – Developing the Programme**

- Designing a best practice programme to ensure that providers can deliver against the standard.
- In Wales this sits in a new Apprenticeship Framework Food and Drink Technical.
- Components include a brand new Qualification Level 3 Diploma in Food and Drink Engineering Maintenance.
- Accredited by City and Guilds.





## On programme qualification features

- Brand new qualification.
- Designed jointly by the industry.
- Whole thing is contextualised to the food industry.
- It is a graded qualification to support the aspiration for excellence.
- Contents over view
  - Core Technical Skills
    - First line routine maintenance
    - Best Practice techniques
    - Produce replacement parts
    - Electrical, mechanical and fluid power systems
    - Welding





## **Qualification Units and Pathways**

All learners complete all of the following units: 301 Compliance 302 Maintenance Best Practice 303 Materials Science 304 Mechanical Maintenance Skills I 305 Producing Replacement Components I 306 Fluid Power Systems 307 Welding I 308 Electrical Maintenance I 309 Services and Utilities 310 Thermodynamics 311 Maths Learners take all units in one of the following pathways Mechanical Multi-skilled 312 Mechanical Maintenance Skills II 315 Electrical Maintenance II 313 Producing Replacement 316 Automation 317 Understand the requirements of Components II 314 Welding II electrical installations BS7671 (2015)





## **Assessment methods**

Assessment method	Description
Assignment	These are set by City & Guilds and marked internally. Centres will be allowed to amend the assignment within certain parameters to ensure it is appropriate to the organisation where the apprentice works.
Short answer question tests	City & Guilds externally set SAQs. These are internally marked by the centre.
Online multiple choice test	City & Guilds externally set and mark online multiple choice tests. These are available on demand.





## **Assessment methods – Unit 304** Mechanical maintenance in food and drink operations

#### Unit assessment task

You are required to produce evidence of carrying out **six** planned maintenance activities on mechanical systems in food and drink operations:

- Replace seals on a pump that has an inlet and outlet valve
- Replace seals, oils and at least one bearing in a gear box
- Replace a chain on a chain drive system
- Replace a component on a system with levers and linkages
- Replace a component on a system with cams and followers
- Replace a component on a system with clutches and brakes

You should meet with your employer and assessor to agree an assessment plan.

**Three** of the maintenance activities must be completed in your workplace. The remaining maintenance activities can be carried out in your workplace and/or at your training centre. Your assessor will observe you carrying out those activities.





# Assessment methods – Unit 301 Food and drink engineering maintenance compliance

1 Describe how the Health and Safety at Work Act applies to food and drink enginee operations.	ering maintenance
	(2 marks)
2	
a) State <b>one</b> role of an Environmental Health Officer.	
	(1 mark)





## Assessment methods – Unit 317 Understand the requirements of electrical installations BS7671 (2015)

- BS 7671 identifies that the cross-sectional area of a conductor shall be determined by:
- a) the admissible maximum temperature
- b) the nominal voltage
- c) voltage tolerances
- d) the earthing system





## Additional requirements supported by the National Skills Academy for Food and Drink

- Food Processing to meet company requirements.
  - Manufacturing and Packaging Engineering
  - Product Ingredients and Packaging
- Legislation Food safety, HSE, HACCP, TACCP, VACCP
- Sustainability Environmental legislation
- Supply chain Effects of customer requirements on the food chain
- CIP Clean in place principles
- Quality management principles
- CI Lean philosophies/Continuous Improvement
- Materials Science Materials used in food manufacturing processes





### **Behavioural framework requirements**

- Core Behaviours
  - Safe Working
  - Ownership
  - Pride
  - Self Development
  - Integrity and Respect
  - Problem solving
  - Open to change
  - Industry/Company perspective
  - Effective communicator
  - Professional Registration Eng Tech
  - Progression
    - Incorporated
    - Chartered





#### **Feedback from centres**

- Meets employer needs well.
- Assessment is straight forward.
- The standard of the apprentices work is very high.
- The flexible nature of the assignment tasks (workshop and workplace) supports delivery.
- Delivery that was often an 'add on' now embedded and accredited in the programme.
- Learners are very involved.
- The workbooks from the NSA work very well alongside the qualification.
- It has created a standard for the requirements to work in the industry





## **Step 3 – Identify Providers**

- Delighted to say there has been much interest already from a number of providers.
- Key questions from industry
  - Have they got the capability?
  - Are they up for the journey?
  - Do they understand food?
  - What help can I give them?
- Key question from Providers
  - Show me the volume!





## **Step 4 – Aggregate Demand**

- We know we need to build demand for providers to want to offer industry work together
  - Through the Welsh Engineering Industry Partnership.
- Already delighted that the following businesses have committed
  - Princes Foods
  - Volac
  - Allied Bakeries
  - The Cake Crew
  - Totally Welsh
  - Tregroes Waffles
- Aim is to identify the first cohort to start September 2018





## **Step 5 – Market the programme**

- Delighted that greater apprenticeship focus and marketing is on the Skills Plan.
- Apprenticeships need marketing to
  - Businesses to encourage them to take them up
  - Learners to attract them to our industry



### Success so far

- England delivery commenced and year 2 enrolments over 200 a year now starting.
- 10 colleges/ providers offering.
- Several £000's of equipment donated to providers to support developing their facilities.
- New Degree apprenticeships in development for progression routes.
- Launch today is the opportunity for businesses in Wales to come on board the journey.





### **Engineering - The Vision**

### Over the next 5 years we move to the situation whereby...

- Engineering in our industry is no longer a poor relation to others but is self contained, confident .. and even admired!
  - A career as an FMCG Engineer is seen as attractive and a real option for young people
- Clear career path ways in Food and Drink Engineering based on a number of sustainable programmes and providers
- Excellent learning experience in well equipped, modern and relevant training facilities.
- Industry demand & cohesion More Welsh businesses work together and train more apprentices
- Greater efficiency and productivity- Businesses are more productive and more competitive through their people.





# The only sustainable advantage of an organization is the ability of its people to learn and improve faster than the competition







#### **One Perspective on Change**

## **Insanity**

"Doing the same thing over and over and expecting different results"



- Albert Einstein







## Cyflwyno Prentisiaeth Peirianneg Bwyd a Diod newydd

Justine Fosh Bwrdd Diwydiant Bwyd a Diod Cymru

Delivering the new Food & Drink Engineering Apprenticeship

Justine Fosh
Food and Drink Wales Industry Board





## Cynhyrchiant ac Arloesedd

Justine Fosh Bwrdd Diwydiant Bwyd a Diod Cymru

**Productivity & Innovation** 

Justine Fosh
Food and Drink Wales Industry Board





# Ymchwil a datblygu: gosod yr agenda sgiliau ar gyfer y dyfodol

Chris Price-Jones, BIC Innovation Martine Spittle, Prifysgol Aberystwyth

R&D: Setting the future skills agenda

Chris Price-Jones, BIC Innovation Martine Spittle, Aberystwyth University





## R&D: Setting the Future Skills Agenda

**CHRIS PRICE-JONES** 

Chairman, R&D Director Bic Innovation Ltd

## R&D / Innovation Drives Skills Agenda

- Hand made to Production Line
- Batch to Continuous
- Continuous Process to PL Control
- Reactive Loops & Recipe based control
- Real time monitoring full automation



## Before....





## After....



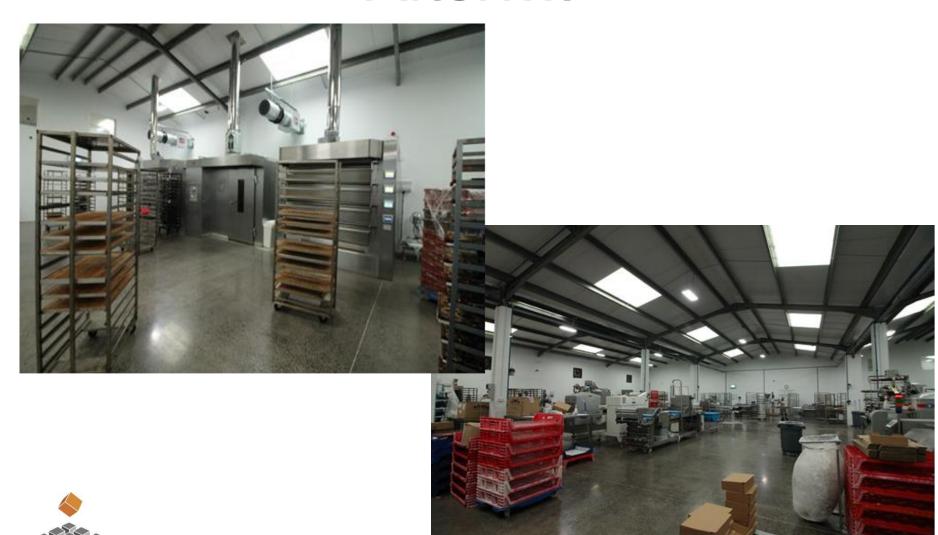


## Before....





## After....



bicinnovation believeinchange

# R&D/Innovation moved the company from....

- Hand made to Production Line
- Batch to Continuous
- Continuous Process to PL Control
- Reactive Loops & Recipe based control
- Real time monitoring full automation



# What are the big challenges facing the industry worldwide?



## Macro challenges

- Feed the world
- Ageing population vs ageing well?
- Malnutrition / deficient diets
- Childhood obesity
- Haves and have nots / widening gap?
- Expanding population & less agricultural land
- Climate change



## Micro challenges?

- Innovative Scientists / Engineers to design modify systems
- Specialist technicians to install and maintain systems
- Attention to calibration of in-line measurement -Less Analysis?
- Recruit and retain?
- Ability to manage and deal with innovation and
   the change it brings.

## Where are we now?

- Fully interactive process control (1984)
- Real time in line measurement
- Robotic systems
- Machine connectivity
- Wear and maintenance monitoring



## Where are we going?

- Full AI based systems
- First CRISPR/cas9 crop by 2020
- Driverless cars / Driverless Food?
- Social problems no manual work
- Competing for a well educated workforce in a low margin sector



## What can we do?

- Know that we don't know?
- Do better than we've done in the past?
- Consider radically different approaches.
- Become more innovative in our thinking!



## What can we do – practical steps?

- Don't just up-skill our workforce, educate them
- Help your workforce become agile and adaptable
- Don't just look at the hard skills you need now
- Look at softer skills/good management
- Equip your team to manage constant change and enjoy innovation
- Build a culture where all can contribute to success
   and benefit from it.



## Personal milestones

- First job in Food Industry 1971
- In 1975 graduated from a "thick sandwich course"
- Late 1984 taught OND, HND Food Technology whatever happened to them?
- Early 1984 installed a plant that could telephone me at home and ask what we wanted to make!
- 1990 defended to government committee the retention of "Home economics in school curriculum"
- 2000's Became involved in wholesale off-shoring of British manufacturing

## What else was happening around me!

- First job in Food Industry 1971
- In 1975 graduated from a "thick sandwich course"
- Late 1984 taught OND, HND Food Technology – whatever happened to them?
- Early 1984 installed a plant that could telephone me at home and ask what we wanted to make!
- 1990 defended to government committee the retention of "Home economics in school curriculum".
- 2000's Became involved in wholesale offshoring of British manufacturing.

- First mobile phone in fiction 1906– a bit early!
- Isaac Asimov began "Foundation Trilogy" 1966
- Arpanet 1983
- Digital cellular 1990
- www 1991
- Wi-fi 1991
- First social media site 1997
- Human genome sequenced2003

## 3 innovation thoughts

- There's a lot of R&D and innovation happening around you, that you need to be aware of
- You need a team about you that is skilled, experienced and well educated to evaluate likely impacts on your business.
- You need to be proactive not only reactive





### Diolch yn fawr / Thank you

Chris.price-jones@bic-innovation.com 01656 861536



Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

## Food Science at IBERS

**Marty Spittle** 

IBERS' Distance Learning Manager



## Overview

- Food Science Capabilities
- Collaborative Research Opportunities
- High Level Skills Training



Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **IBERS** is:

- world-leading institute for advanced research in agri-food systems
- currently engaged with over 250 companies
- £18M+ annual research funding

### Food Science Capabilities -

- New and emerging technologies
- Finer more detailed analysis
  - Genomics
  - Phenomics
  - Metabolomics
  - Microbiology



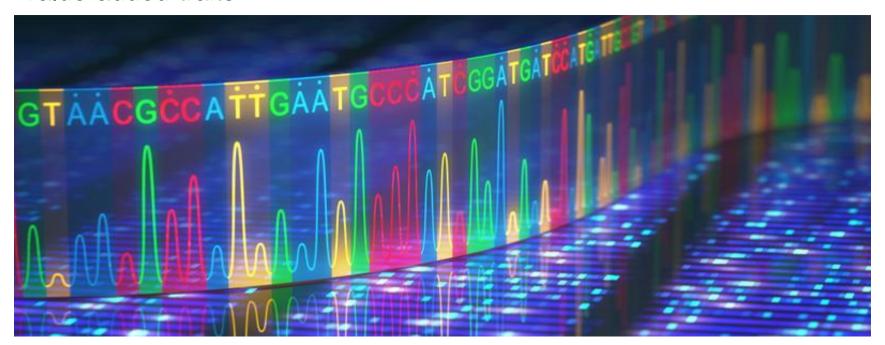
Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Genomics:**

**Next Generation Sequencing**: Testing purity and provenance, distinctiveness credibility of branded food stuffs

**Marker and chip capability**: assess and select crops and livestock for value-added traits.





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### Phenomics and image analysis

- Phenomics Physical and chemical expression of genes in response to environment
- High-throughput classification (size, shape and colour)
- Environmental control
- Imaging Technologies:
  - Hyperspectral imaging (quality traits and chemical composition)
  - Bio-imaging (Texture and structure)
  - CT scanning for 3d shape analysis

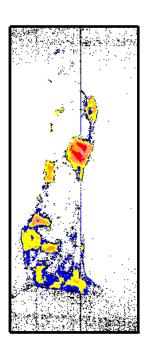




## Image analysis e.g. Faecal contamination detection

 Meat contamination detection – online in meat processing plants – florescent detection of chlorophyll markers









Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Metabolomics:**

- Systematic study of the unique chemical fingerprints that specific cellular processes leave behind - Plant, animal, human
- High-end, high through-put mass-spectrometers, computing resources and advanced analytical capability
- Applications:
  - Bio-active food discovery and development of novel added value crops
  - Content analysis fibre, fatty-acid, lipid, protein, carbohydrate composition, mineral assessment, secondary metabolite content.
  - Identification of dietary exposure biomarkers objective human-diet analysis for clinical diet and health trials





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Microbiology**

- Food safety e.g. campylobacter detection
- Brewing yeast viability and vitality
- Effects on gut micro flora, with implications for the development of pre- and probiotics.
- Bio-fermentation and bio-refining production and extraction of bioactives and novel food additives





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

## **Collaborative opportunities**



Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Collaborative opportunities**

Well-being and Health Assessment Research Unit (WARU)

Access to cohorts of people

- Food intervention trials/health monitoring /pre-chronic disease phases
- Validating health claims for food products
- Human responses e.g. effect of ingredients on glucose control, fat deposition, muscle mass
- Consumer behaviours associated with satiety, cognition and stress.





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Collaborative opportunities**

#### **Future Foods**

- Free initial discussions and project planning
- Collaborative research e.g.
  - Potential health benefits
  - Composition
  - Pilot product/extraction methods

## Aberystwyth Innovation and Enterprise Campus (AIEC)

IBERS capabilities available at pilot scale

- Office space
- Use of Facilities





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/



#### **Future Food Centre**

Meat, dairy and liquids pilot scale processing – food grade Packaging and storage facilities Food quality testing laboratories Sensory Testing Suite Demonstration Kitchen Bakery Microbrewery Microbiology laboratories

Campws Arloesi a Menter Aberystwyth

Aberystwyth Innovation and Enterprise Campus



Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### **Meat science:**

- Composition testing e.g. fatty acids
- Lipid biofractionation via metabolomics
- Shear force testing

Sensory analysis – taste, texture, hedonistic qualities



Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/



### **Bioprocessing Centre**

Field laboratory
Primary processing room
Downstream processing unit
Fermentation unit
Industrial Biotechnology Unit
Bioprospecting Area
Clean Lab. ISO7
Synthetic Biology incl. Robotics

Campws Arloesi a Menter Aberystwyth

Aberystwyth Innovation and Enterprise Campus





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

## Biorefining Pilot Facility





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/



Bioprospecting Area Extraction facilities Analysis of – mineral and trace elements, fibre analysis, total fatty acids, vitamins, lipids and polar compounds.

LC-MS and HPLC Laboratories Gas Chromatography Room Microbiology Laboratories Clinical trials capabilities Data Processing Suites

Analytical Chemistry Service Unit

Campws Arloesi a Menter Aberystwyth

Aberystwyth Innovation and Enterprise Campus





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

## **High Level Training:**



www.aber.ac.uk/ibers/

## **High Level Training:**

- 1. AgriFood Training Partnership Reading, Aberystwyth, Bangor, Harper Adams, Nottingham, Cranfield (<u>www.aftp.co.uk/</u>) – upcoming courses:
  - The Science of Wheat & Milling
  - Sustainable Supply Systems: Production to Processing
  - Diet Quality and Health
  - International Food Law The Basics
  - Food Flavour
  - Getting your Food Product to Market

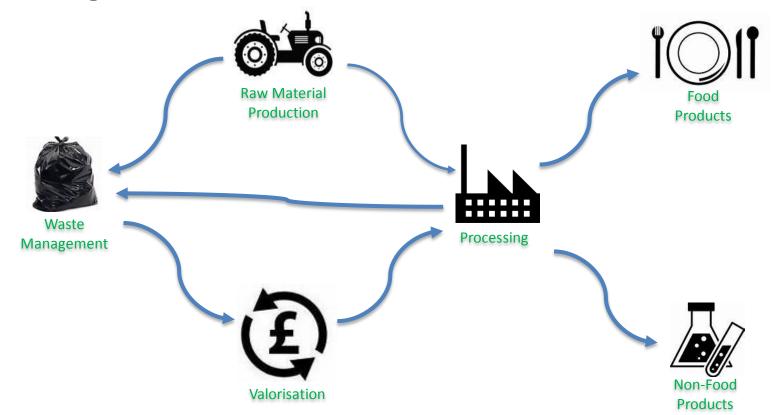


Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

### 2. Welsh BioInnovation – Aberystwyth, Swansea, AIEC

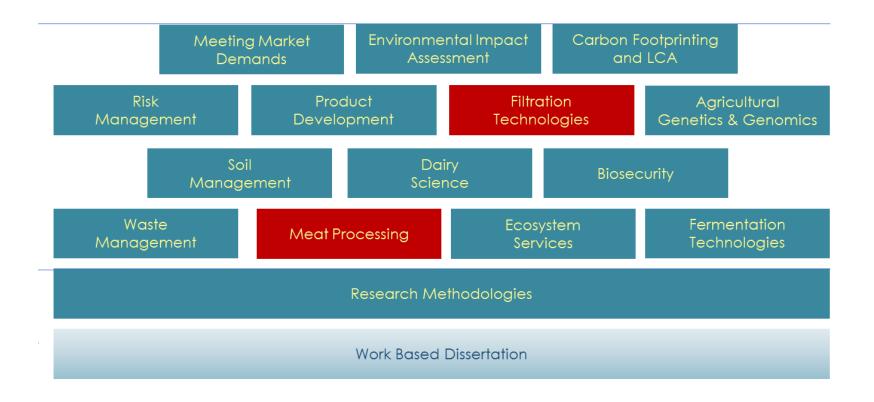
- Subsidised training for WW&V
- High level and technical skills in bio-based businesses





#### 2. Welsh BioInnovation – Aberystwyth, Swansea, AIEC

Flexible Modular Training

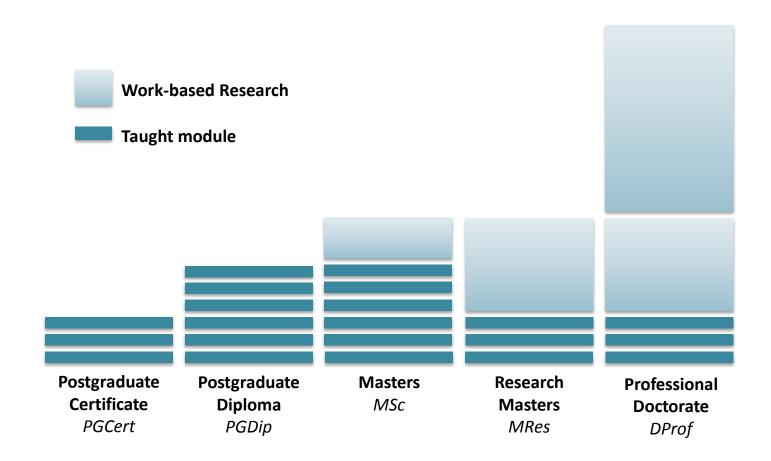




www.aber.ac.uk/ibers/

#### 2. Welsh BioInnovation – Aberystwyth, Swansea, AIEC

Build Postgraduate Qualifications





Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig Institute of Biological, Environmental and Rural Sciences

www.aber.ac.uk/ibers/

## Diolch yn fawr



#### Sgiliau a heriau wrth wella cynhyrchiant

Kees Huysmans, Tregroes Waffles
Iwan Thomas, Bwrdd Uchelgais Economaidd Gogledd
Cymru
David Lea-Wilson, Halen Môn,
Philip Tomlinson, Tomlinson's Dairies
Ainsley Baker, Kite Consulting

# Skills Challenges around improving productivity

Kees Huysmans, Tregroes Waffles Iwan Thomas, North Wales Economic Ambition Board David Lea-Wilson, Halen Môn, Philip Tomlinson, Tomlinson's Dairies Ainsley Baker, Kite Consulting





# Improving productivity













# Everyone agrees with improving productivity

#### BUT

- If you can't measure it, you can't monitor it
- If you can't monitor it, you can't improve it
- Or prove it















But before that agree Quality standards - one example below













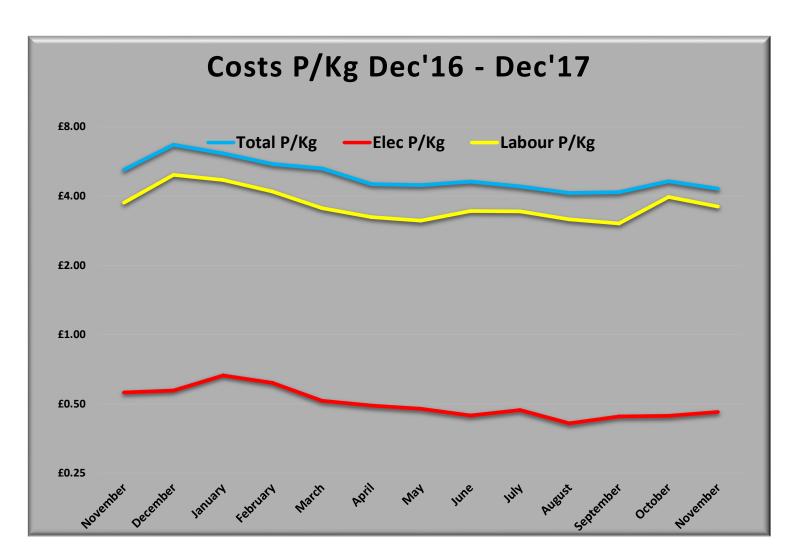
























# What to measure Key Performance indicators (KPI)

For us

- Labour per kilo
- Energy per kilo
- Overheads
- Complaints
- Customer retention rate
- New customer recruitment
- New products











#### Shared Productivity wall - staff only room

















#### Shared quarterly

- Data by itself is useless
- Everyone needs to know how we are doing!
- We used to call it Sustainability
- Now call it efficiency or profitability

















# Egwyl Break



# Buddsoddi mewn sgiliau masnachol: safbwynt y prynwr

Jon Williams & Dean Lindsay, CH&Co

# Investing in commercial skills: A buyer's perspective

Jon Williams & Dean Lindsay, CH&Co





# The Perfect Supplier!

Invest in Skills, Invest in Growth.

8<sup>th</sup> February 2018





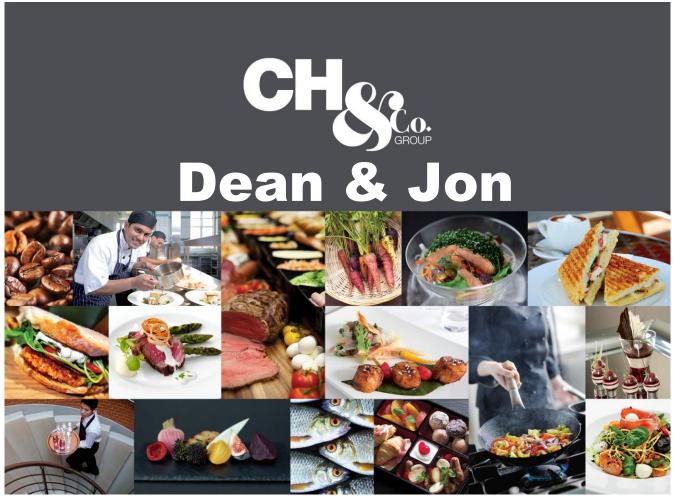


























#### Some Of The Best Suppliers.....





















And Some ......





# STAND OUT FROM THE CROWD

(for the right reasons!)













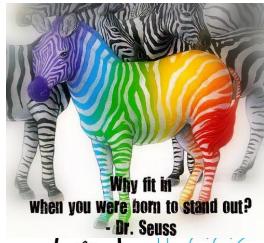


#### The Innovation Den

















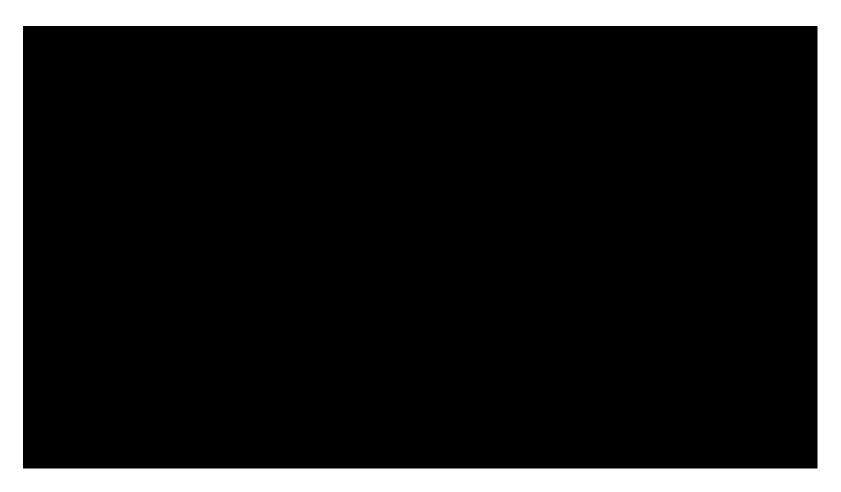






#### The Innovation Den - Video























 Supply Chain Solutions



 Operational Innovation & Excellence

















- 1. Product innovation (go-forward programme)
- 2. Leading the market
- 3. Understanding our business
- 4. Business approach & can do attitude
- 5. Passionate about the product & company

















- 1. Packaging fit for purpose & fit for the environment
- 2. CSR credentials
- 3. Well thought through & reasonable commercial expectations
- 4. Willingness to engage & to educate

















- 1. Engagement with customers & clients
- 2. Education & knowledge sharing
- 3. Product development conveyer belt
- 4. Promotions & marketing
- 5. Growing sales & enhancing margin

















- 1. Meeting our clients aspirations
  - 1. Sustainability
  - 2. Provenance
  - 3. Health & Nutrition
- 2. Supporting new business wins
- 3. Invoice accuracy
- 4. Product availability















### Debunk The Myths









# Every Business is the same



















#### Thank You

















#### Atebion i rai o'r problemau â sgiliau

Justine Fosh Bwrdd Diwydiant Bwyd a Diod Cymru

Solutions to some of the skills issues

Justine Fosh
Food and Drink Wales Industry Board





#### Ffyrdd arloesol o ganfod talentau

David Evans, Dylan's David Lloyd, Prifysgol Metropolitan Caerdydd

Innovative ways of sourcing talent

David Evans, Dylan's David Lloyd, Cardiff Metropolitan University





# Sgiliau Bwyd Cymru – Cyllid ar gyfer sgiliau

Kevin Thomas, Lantra

Food Skills Cymru – Funding for Skills

Kevin Thomas, Lantra



# Food Skills Cymru

Kevin Thomas

National Director Lantra



## Food Skills Cymru

"A skilled and capable workforce is a prerequisite in any industry to increase productivity and efficiency, and to fuel innovation and growth".

Towards Sustainable Growth: An action plan for the food & drink industry 2014-20



### **Project Outline**

The project aims to address the needs identified in the Wales Food & Drink Strategy:

- Support will be provided to Wales based food & drink businesses (excluding retail) through technical and workforce development.
- A skills diagnostic process will be offered to assist in identifying the relevant technical & skills related gaps
- Support through suitable accredited or non-accredited solutions
- Delivered through a network of quality assured training providers
- Be-spoke solutions developed with the client



### Project outline

- Food Skills Cymru will run alongside and complement other Government funded initiatives such as;
  - Apprenticeships
  - Helix
  - Cywain
- The project will be launched on April 1, 2018 and will run for 3 years initially
- Training solutions will be driven by the demands of industry
- An industry led project steering group established to ensure relevant and up to date issues are identified & addressed.



### Support

- Food & drink businesses will be supported through the process in a number of ways including;
  - Face to face discussion with an experienced account manager
  - Telephone
  - on-line support
- Funding will be available, intervention rates to be confirmed
- Training can be delivered in 'bite-sized' chunks of learning tailored to the job role needs.
- Training delivered 'on-site' wherever possible to limit inconvenience



### Outputs – 3 years

- 1000 unique learners
- 1500 training interventions
- 650 businesses supported (including hospitality)



### Next Steps

- Appoint project steering group and Chairperson
- Skills diagnostic in development
- Project already open to employer enquiries
- Contact details are;

Email: Wales@Lantra.co.uk

Telephone: 01982 552646

Website www.foodskills.cymru



# Diolch Thank you





### Prosiect Helix a buddsoddi mewn sgiliau

Martin Jardine, Grŵp Llandrillo Menai Arloesi Bwyd Cymru

Project Helix & skills investment

Martin Jardine, Grŵp Llandrillo Menai Food Innovation Wales



### HELIX

'Knowledge transfer to develop a World Class Food and Drink sector'

### **Cyflwyniad / Introduction:**



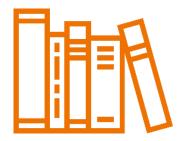








**34,000** students



Approx.
7,500
FT students



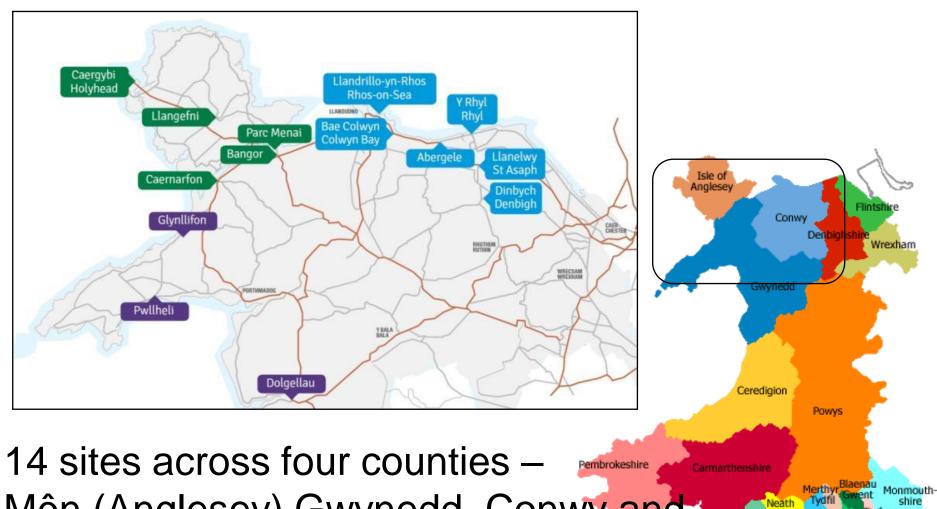
**2,000** staff



**14**₊ Sites



### Prif Gampwsiaid / Main Campuses



Swansea

Vale of Galmorgan

Newport

Môn (Anglesey) Gwynedd, Conwy and Denbighshire

### **FTC Facilities & Services:**

- Processing Halls
- Technical support
- New Product Development Kitchen
- Modern laboratory for food testing
- Conference facilities
- GLLM training & initiatives
- (e.g. @Busnes, SEE project and NWBA)









#### North Wales Mid Wales





#### **South Wales**





## Technegol / Technical Ymarfeol / Practical Arloesi /Innovative

### Rationale

Welsh Food Innovation Centres (Academia)

Food Government (Food Division)

Arloesi Bwyd Cymru Food Innovation Wales

HELIX



## European Agricultural Fund for Rural Development

**Project HELIX:** 

**Delivery up to: December** 

2022

**Project end: September 2023** 

**Intervention Rates:** 

Micro Business (up to 100%)

**SME Business: (Up to 80%)** 

Large: N/E









### HELIX



Food Innovation



Food Efficiency

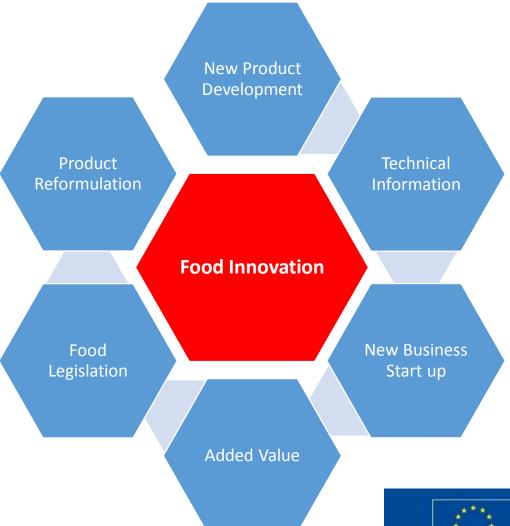
Food Strategy







HELIX Arloesi Innovation









HELIX Effeithlonrwydd Efficiency







rop yn Buddsoddi mewn Ardaloedd Gw European Agricultural Fund for Rural Development: Europe Investing in Rural Areas



Innovation Framework Mentoring & 3rd Party Accreditation Skills **Food Strategy** Food Public Business Engagement Development Industry Intelligence

> Cronfa Amaethyddol Ewrop ar gyfer Datblygu Gwledig: Ewrop yn Buddsoddi mewn Ardaloedd Gwledig

European Agricultural Fund for Rural Development: Europe Investing in Rural Areas Llywodraeth Cymru

Welsh Government

### CANLYNIADAU / OUTPUTS:

300+ Companies signed up

118 Unique participants

197 Training days given

155 New products supported HELIX

16 New markets accessed



### CANLYNIADAU / OUTPUTS:

- 50+ Start up companies
- 33.5 New Jobs created
- 160 Jobs safeguarded
- £23+ Million Impact
   (Data Verified by Managing Directors)



### Partneriaid y Diwydiant / Industry Partners:





































### **Partneriaid y Diwydiant / Industry Partners:**



























### Diolch / Thank you

### Martin Jardine Food Technology Centre Manager



www.foodtech-llangefni.co.uk



@foodtechcentre1





### Addewidion Gyrfaoedd 'Tasty'

Andy Richardson
Cadeirydd, Bwrdd Diwydiant Bwyd a Diod Cymru

**Tasty Careers Pledges** 

Andy Richardson
Chair, Food and Drink Wales Industry Board



### Diwedd Close