

66



# INDUSTRIAL BIOTECHNOLOGY & BIOENERGY CAREERS FAIR

12/04/17 @  
The University  
of Sheffield.



**We welcome you to this first high profile careers fair for our early career researchers, showcasing opportunities for your career in the Industrial Biotechnology and Bioenergy sector.**



Firstly, we would like to thank all the organisations for attending this event and providing such a fantastic opportunity to our early career researchers.

As an early career researcher, today you will have the chance to speak to over 20 different exhibitors. Please take time to talk to as many organisations as you can and participate actively in the 1-2-1 sessions. We hope you take away a range of good advice to help you make informed decisions on your next career steps.

Good luck with your future and don't forget to tweet about your experience today!

 @CBMNet\_NIBB  
 #IBBECareers2017



**YOUR FUTURE  
YOUR CHOICES.**

**DR JEN VANDERHOVEN**

CBMNet Manager and  
Careers Fair organiser

# AGENDA

TIME	ACTIVITY	SPEAKER
10:00	Registration & Exhibition	
10:30	Introduction	Professor Jeff Green, CBMNet Director
10:40	Company presentation	Reckitt Benckiser
10:50	Company presentation	Green Biologics Limited
11:00	Company presentation	Ingredients2Connect Ltd
11:10	Company presentation	Unilever
11:20	Company presentation	FujiFilm Diosynth Biotechnologies
11:30	Company presentation	TeeGene Biotech Limited
11:40	Company presentation	GSK
11:50	Company presentation	Neem Biotech
12:00	Company presentation	UCB Pharma
12:10	Company presentation	CPI
12:20	Company presentation	CHAIN Biotech
12:30	Company presentation	NNFCC
12:40	Lunch & Exhibition	
13:30–16:00	Pre-bookable 1–2–1 sessions	
13:30–16:00	Exhibition	
16:00	Close	



For more information about our activities or if you have any questions please visit or email:

**E** [cbm@sheffield.ac.uk](mailto:cbm@sheffield.ac.uk)

# EXHIBITORS



## BBSRC



The BBSRC is one of seven Research Councils in the UK, which are funded by the Government's Department for Business, Energy and Industrial Strategy (BEIS). We support around 1600 scientists and 2000 research students in universities and institutes across the UK. Our aim is to promote and support high-quality basic, strategic and applied research and related postgraduate training relating to the understanding and exploitation of biological systems. We also aim to advance knowledge and technology (including the promotion and support of the exploitation of research outcomes), and provide trained scientists and engineers, which meet the needs of users and beneficiaries (including the agriculture, bioprocessing, chemical, food, healthcare, pharmaceutical and other biotechnological related industries), thereby contributing to the economic competitiveness of the United Kingdom and the quality of life.

- E [postdoc.researchers@bbsrc.ac.uk](mailto:postdoc.researchers@bbsrc.ac.uk)
- W [bbsrc.ac.uk](http://bbsrc.ac.uk)

## BOUYGUES E&S LTD



Bouygues Energies & Services provides engineering and service capabilities from conception, design and construction through to facility management within the UK. We have ambitious plans for growth as we continue to build on our successes. We want to find, attract, grow and keep high-quality individuals. Our future depends on recruiting and retaining the best. Do you want to join a company that offers the career opportunities of a large international group but small enough for you to make a real difference? Are you looking for flexible rotations across different business functions to help you find your future career path? Would you thrive in a collaborative environment where you can put forward your innovative ideas at board level? Each year we take on a number of graduate trainees because we like to 'grow our own' talent and welcome fresh perspectives and ideas.

- E [recruitment-fm@bouygues-es.co.uk](mailto:recruitment-fm@bouygues-es.co.uk)
- W [bouygues-es.co.uk](http://bouygues-es.co.uk)

## BREWLAB

### Brewlab

Brewlab provides training and services for the brewing and beverage industry with accredited, career focused courses leading to professional qualifications. These support an increasingly active brewing and fermented food industry by providing staff and recruits with technical knowledge and practical skills. Potential employment is available in production, quality assurance, management and sales along with similar positions in support industries. These positions are often in dynamic companies applying modern technologies to traditional products and have great opportunities for biotechnology involvement, particularly in microbiology, chemical engineering and formulation. Brewlab courses include a strong focus on placements and skill development and work towards gaining additional qualifications from the Institute of Brewing and Distilling as well as supporting continuing professional development.

- E [keith@brewlab.co.uk](mailto:keith@brewlab.co.uk)
- W [brewlab.co.uk](http://brewlab.co.uk)

## CALYSTA

### CALYSTA.

**E** [tithiraw@calysta.com](mailto:tithiraw@calysta.com) or  
[ihiggins@calysta.com](mailto:ihiggins@calysta.com)  
**W** [www.calysta.com](http://www.calysta.com)

Calysta, Inc. ([www.calysta.com](http://www.calysta.com)) based in California, through its subsidiary Calysta (UK) Ltd, global Industrial Biotechnology company founded in 2012, creating innovative industrial bioproducts from sustainable sources. Calysta Nutrition develops and produces high quality protein for commercial aquaculture and livestock feed. Calysta has established its first Market Introduction Facility (D-loop Pilot scale fermentation facilities) in UK for FeedKind® protein, a new sustainable fish feed ingredient to reduce the aquaculture industry's use of fishmeal. The facility opened in September 2016 and is located at the Centre for Process Innovation (CPI), at Teesside, in northeast England. This facility will produce commercially representative samples that will be available to customers for testing in early 2017. Calysta has also announced a partnership with Cargill for production of FeedKind Aqua protein in North America and marketing worldwide.

## CatSci LTD



**E** [angela.moseley@catsci.com](mailto:angela.moseley@catsci.com)  
**W** [catsci.com](http://catsci.com)

CatSci is a Contract Research Organisation providing customised R&D services to the chemical industry; pharmaceuticals, agrochemicals, flavours and fragrances, and specialty chemicals. We do business with companies the world over; from US, Australia, Europe and UK. Based near Cardiff, we began operating in 2011 with 5 members and have since expanded to 20 people, doubling the size of our laboratory. We are positioned to respond to customer needs for chemical process development, optimisation and scale-up; new route design and assessment; catalyst and reaction screening; troubleshooting; and non-GMP synthesis up to hundreds of grams. We work with projects at every stage, from discovery to full-scale manufacture. CatSci has particular expertise with air, heat and moisture sensitive compounds, and in homogeneous and heterogeneous catalysis, as well as in biocatalysis. Future plans include further expansion of our customer base, developing our consultative approach and the extension of our capabilities, including in biocatalysis.

## CENTRE FOR PROCESS INNOVATION



**E** [info@uk-cpi.com](mailto:info@uk-cpi.com)  
**W** [uk-cpi.com](http://uk-cpi.com)

The Centre for Process Innovation is a UK-based technology innovation centre and part of the High Value Manufacturing Catapult. We use applied knowledge in science and engineering combined with state of the art development facilities to enable our clients to develop, prove, prototype and scale up the next generation of products and processes.

## CHAIN BIOTECHNOLOGY LTD



**E** [info@chainbiotech.com](mailto:info@chainbiotech.com)  
**W** [chainbiotech.com](http://chainbiotech.com)

CHAIN Biotechnology Ltd was founded by Dr Edward Green in 2014 to develop new Clostridium-based microbial technology for high value healthcare products. The Company has developed a novel delivery platform for live biotherapeutic products (LBPs) to treat chronic gut-related diseases where no effective treatments exist today such as Inflammatory Bowel Disease. The Company has adopted a differentiated and capital efficient 'spin-in' business model leveraging considerable academic firepower from University collaborators. CHAIN is based at Imperial College, London, and the core technical team is embedded within the Synthetic Biology Research Centre at the University of Nottingham. CHAIN is ideally placed for collaboration with clinicians and medical researchers from Imperial College and the Universities of Nottingham, Leeds and Cardiff.

## FUJIFILM DIOSYNTH BIOTECHNOLOGIES



**E** [ian.hodgson@fujifilm.com](mailto:ian.hodgson@fujifilm.com)  
**W** [fujifilmdiosynth.com](http://fujifilmdiosynth.com)

FUJIFILM Diosynth Biotechnologies is a dedicated biopharmaceutical CDMO (Contract Development and Manufacturing Organisation), developing manufacturing processes and manufacturing biopharmaceuticals, for third parties. We use both microbial and mammalian cells to make a wide range of different proteins, for a range of different clinical uses, and work with 3rd parties from all across the World. We have extensive process development laboratories, as well as biopharmaceutical manufacturing plants at a range of scales. We have 3 sites, 1 in Billingham, in the North East of England, and 2 in the USA. We employ around 500 people in Billingham, in a variety of roles. A high proportion of our staff have a life sciences degree.

## GREEN BIOLOGICS



**E** [liz.jenkinson@greenbiologics.com](mailto:liz.jenkinson@greenbiologics.com)  
**W** [greenbiologics.com](http://greenbiologics.com)

Green Biologics (GBL) is an industrial biotech company based in Abingdon, Oxford. Our current focus is on using Clostridial microbes for the production of bio-butanol and bio-acetone from fermentation of waste or renewable feedstocks. In 2016 we commenced distribution from our first industrial plant, Central Minnesota Renewables (CMR) in the US. Our R&D activities are situated in the UK with our technical team comprising experts in molecular microbiology, fermentation process design and analytical chemistry. We have a leading technology position in the use of clostridia as microbes for synthetic biology applications. Our patent protected proprietary CLEAVE™ technology allows us to efficiently and precisely edit the clostridial genome which has enabled us to show the versatility of these microbes as industrial hosts for the production of a range of non-native bio-chemicals.

**GSK**

GSK – one of the world’s leading research-based pharmaceutical and healthcare companies – is committed to improving the quality of human life by enabling people to do more, feel better and live longer. By delivering a sustainable business, we provide health benefits to patients and consumers, improved shareholder returns as well as supporting wider society. We have career opportunities at all levels of seniority across the business globally. Our people are essential to our success. We focus on building their capabilities, and aim to support and empower them to be the best they can be. Whether you’re looking for an internship, a graduate opportunity, or seeking your next career move as an experienced professional, on these pages you’ll find a range of opportunities to be part of an organisation that helps millions of people around the world to do more, feel better, live longer.

**E** [murray.j.brown@gsk.com](mailto:murray.j.brown@gsk.com)  
**W** [gsk.com](http://gsk.com)

## Ingredients2 Connect Ltd

INGREDIENTS 2 CONNECT

Ingredients2Connect Ltd is a Business growth accelerator for food ingredients. We create opportunities for entrepreneurs and innovators with novel food ingredients. We offer support to these innovators in taking their ideas and concepts to commercial reality. We work with the best experts in the food industry to identify your target market, get funding to develop your ideas and meet the right people to exploit your products. We offer support to develop your ideas, brand and business, giving you the best chance of getting your ingredients into products.

**E** [sarah@ingredients2connect.com](mailto:sarah@ingredients2connect.com)  
**W** [ingredients2connect.com](http://ingredients2connect.com)

## INVISTA



INVISTA transforms daily life through its innovations in the nylon, spandex, polyester and specialty materials industries. You may find INVISTA's products in your clothing, carpets, cars and computers—just to name a few. A subsidiary of privately owned Koch Industries, Inc., INVISTA has more than 50 locations across North America, South America, Europe, and the Asia-Pacific region. At INVISTA, you won’t just be an employee. You’ll be part of a team that works hard every day. We want the right people in the right roles—and we want those people to be fulfilled in their roles. Fulfilment enables employees to realize their full potential—and helps them improve and grow within their career fields.

**E** [jo.kenrick@invista.com](mailto:jo.kenrick@invista.com)  
**W** [invista.com](http://invista.com)

## NEEM BIOTECH



Neem Biotech, a Zaluvida company, is an established and now rapidly growing Wales-based biotechnology R&D company. With significant experience of working with both the biology and chemistry of small molecules, we are well positioned to meet our aims of finding safe and effective solutions for costly real-life healthcare and environmental problems. In particular, our three-pronged focus is aimed at creating solutions for a healthy, prosperous and responsible livestock industry, finding interventions to combat antimicrobial resistance and finding ways to encourage people to take greater responsibility for managing their weight and liver health. Bespoke in-house R&D and pilot scale manufacturing facilities and cumulative process development industry expertise in excess of 100 years allow us to carry out contract research on an ad hoc basis as capacity allows. This includes in the fields of bioenergy and bio-based products and services.

**E** [contact@neembiotech.com](mailto:contact@neembiotech.com)  
**W** [neembiotech.com](http://neembiotech.com)

## NNFCC



NNFCC is a strategic consultancy with in-depth expertise of the bioeconomy; offering a wealth of experience of the bioenergy and biofuels markets and the growing biobased products sector. The team has international experience to guide businesses through policy hurdles and assist in the development of technology and international markets. At NNFCC we believe in a future where biobased technologies are a key component of the low carbon circular economy. We are driven by our belief that the bioeconomy will create sustainable business opportunities and deliver wide ranging environmental and societal benefits. Our objective is simple – to provide clients with a strategic view of feedstock, technology, policy and market development across the bioeconomy, enabling them to make informed business decisions and develop sustainable business strategies.

**E** [a.higson@nnfcc.co.uk](mailto:a.higson@nnfcc.co.uk)  
**W** [nnfcc.co.uk](http://nnfcc.co.uk)

## OXFORD BIOTRANS



Oxford Biotrans is a University of Oxford spin-out company supported by over 20 years of research. The company develops and commercialises enzymatic process technologies that yield high-value chemical compounds. Our processes bring the following benefits: Yield natural-grade products from natural feedstocks; Offer security of supply by using readily-available feedstocks; Realise production cost advantages, deriving from: (a) Selectivity and activity of our proprietary, bespoke biocatalysts and (b) Ability to use low-cost feedstocks. They are environmentally friendly process, thus producing less chemical waste and using less energy. Moreover, we can provide routes to molecules not easily accessed by any other means due to the pronounced ability of our catalysts to functionalise positions of a molecular framework that would ordinarily be considered inactive.

**E** [info@oxfordbiotrans.com](mailto:info@oxfordbiotrans.com)  
**W** [oxfordbiotrans.com](http://oxfordbiotrans.com)

## RECKITT BENCKISER



 [rb.com](http://rb.com)

RB is the world's leading consumer health and hygiene company and has operations in over 60 countries and sales in most countries across the globe. The company employs 37,000 people worldwide. Inspired by a purpose to deliver innovative solutions for healthier lives and happier homes, RB is in the top 20 companies listed on the London Stock Exchange. It is the global No. 1 or No. 2 in the majority of its fast-growing categories, driven by an exceptional focus on innovation. RB's health, hygiene and home portfolio is led by its global Powerbrands including Nurofen, Strepsils Gaviscon, Durex, Clearasil, Dettol, Veet, Finish, Vanish, Calgon, and Air Wick. It has a drive for achievement and a passion to outperform wherever it focuses, including sustainability where it is targeting a 1/3 reduction in water impact, a 1/3 reduction in carbon and 1/3 of net revenue from more sustainable products.

## ROYAL SOCIETY OF BIOLOGY



 [membership@rsb.org.uk](mailto:membership@rsb.org.uk)  
 [rsb.org.uk](http://rsb.org.uk)

The Royal Society of Biology is the UK's leading professional association for the life sciences: representing a single unified voice for biology: advising Government and influencing policy; advancing education and professional development; supporting our members, and engaging and encouraging public interest in the life sciences. The RSB represents and supports a diverse membership of over 17,000 individuals, 100 learned societies and other organisations making up the diverse landscape of the biological sciences. Individual members include practising scientists and technicians, students at all levels, professionals in academia, industry and education, and non-professionals with an interest in biology.

## TEEGENE BIOTECH LIMITED

TeeGene Biotech



 [rahman@teegene.co.uk](mailto:rahman@teegene.co.uk)  
 [teegene.co.uk](http://teegene.co.uk)

TeeGene Biotech, a Teesside University spin out venture, has developed unique strains of bacteria which produce biosurfactants, which act like soap and help to emulsify different liquids. Most people consider soap to be an effective means of removing bacteria from their skin. However, TeeGene's team have flipped this concept on its head by discovering a way to create soap from bacteria. Unlike traditional surfactants which are made using synthetic materials, biosurfactants can be manufactured in a laboratory and have minimal impact upon the environment, making them much more economical and efficient. TeeGene Biotech's unique way of processing the biosurfactants means the company is able to scale production to meet the demands of industry ranging from cosmetics to biopharmaceuticals. The business has intellectual property in its production processes and equipment, and is developing this further in the product offerings.

## THE WOMEN'S ENGINEERING SOCIETY



 [info@wes.org.uk](mailto:info@wes.org.uk)  
 [wes.org.uk](http://wes.org.uk)

The Women's Engineering Society is a charity and a professional network of women, engineers, scientists and technologists offering inspiration, support and professional development. Working in partnership, we campaign to encourage women to participate and achieve as engineers, scientists and leaders.

## UCB PHARMA



 [sarah.george@ucb.com](mailto:sarah.george@ucb.com)  
 [ucb.com](http://ucb.com)

UCB, ([www.ucb.com](http://www.ucb.com)) is a global biopharmaceutical company focused on the discovery and development of innovative medicines and solutions to transform the lives of people living with severe diseases of the immune system or of the central nervous system. With more than 7,700 people in approximately 40 countries, the company generated revenue of € 3.9 billion in 2015. UCB aspires to be the patient-centric biopharmaceutical leader transforming the lives of people living with severe diseases. UCB is growing to become the next generation biopharma leader and needs exceptional individuals to achieve this goal.

## UNILEVER



 [unilever.co.uk/contact/contact-form/](http://unilever.co.uk/contact/contact-form/)  
 [unilever.com](http://unilever.com)

Unilever is one of the world's leading manufacturers of fast-moving consumer goods, with sales in 190 countries. Unilever's business is aligned around 4 product categories in Foods, Refreshment, Personal Care and Home Care, with dedicated R&D professionals firmly embedded into each category. R&D also supports longer-term research for all categories through the Strategic Science Group and, in addition, a considerable amount of scientific research is conducted as part of the Safety and Environmental Assurance Centre. Our company vision is to double the size of the business, whilst reducing our environmental footprint, increasing our positive social impact and making sustainable living commonplace. Unilever leadership recognises that supporting a strong innovation pipeline is key to enabling the company to meet these ambitious goals.

# 1-2-1 SESSIONS



**ADEEL ASLAM**

Process Engineering Manager  
Bouygues E&S Ltd

Adeel Aslam is a fully qualified process chemical engineer and has been with Bouygues for over ten years working on many "first of a kind" projects from early concept stage. His role is to work alongside the Business Development Team to assist in developing an understanding of client's key requirements when looking to scale up or optimise a process manufacturing facility and to move that interest along as a series of defined and measurable steps to achieve a predictable outcome for the client.



**ADRIAN HIGSON**

Lead Consultant for  
Bio-based products  
NNFCC

Adrian Higson is NNFCC's Lead Consultant for Bio-based products. He has over 16 years' research and consulting experience within the chemical and bio-based products industry. Adrian takes a particular interest in biorefining, industrial biotechnology and innovation strategy within the bioeconomy. Adrian is a member of the European Commission Expert Group for Bio-Based Products (UK representative), UK Bioeconomy public sector working group, the Scottish Industrial Biotechnology Development Group and a bioeconomy advisor to Innovation Norway. Adrian holds a PhD from the University of Liverpool and has held research positions at the University of Colorado (USA) and University of Dundee (UK). Prior to joining NNFCC he was a project manager at SAFC Pharma (Sigma Aldrich) supervising the manufacture of pharmaceutical ingredients for clinical trials.



**ALAN GODDARD**

Lecturer  
Aston University

I did my BSc and PhD at the University of Warwick, both broadly speaking in the area of molecular biology. I then undertook two postdoctoral positions in the Department of Biochemistry at the University of Oxford before becoming a Lecturer and then Senior Lecturer at the University of Lincoln. I left Lincoln to join Aston University in 2016 where I am currently a lecturer in Biochemistry. My research interests include membrane proteins (mainly G protein-coupled receptors and transport proteins) as well as the lipid membranes in which they reside. I have a number of industrial collaborations including one with Green Biologics Ltd focussing on the toxicity of n-butanol to biological membranes in Clostridia.



## ANDREW GODDARD

Royal Society of Biology  
Biochem Society

After obtaining a degree and post graduate qualifications in biotechnological disciplines, I found it difficult to find a job. I have had a mixed career and had to adjust my expectations a number of times. Though initially interested in R&D within the pharmaceutical sector or biotechnology, these jobs were only open to researchers with specific research skills of interest, there was few opportunities for generalists. I retrained and started in manufacturing on quality systems for laminating sandwich panels, where adhesives are used to bond materials together. After a short period in contract cleaning using acids, high pressure jetting and chlorination, I moved into chemical treatment of bulk liquid and packaged hazardous wastes. I have been in the waste sector for about 25 years. In the last 10 years been more involved in biological waste treatment such as composting/anaerobic digestion and mechanical biological treatment systems. I have developed a good understanding of odour management principles. I now work for a small company looking into better uses of waste materials for soils and other growth media applications.



## ANDY SHAW

PROGRAM TECHNICAL MANAGER  
INVISTA

Andy has a PhD from the University of Sheffield. He has worked in industrial biotechnology with leading companies such as Genencor and Codexis for 20+ years. He is currently a Program Technical Manager at INVISTA developing novel organisms and processes to produce chemicals.



## AMY SAWTELL

Research Scientist, Discovery Biology  
UCB

I am a cellular biologist at UCB. I am involved in assay development with the aim of finding new, novel targets for therapeutics. I started at UCB in February 2016, I came from academia, having not worked in industry before, and have not regretted the decision to move. Working for UCB is not what I expected; it has surpassed all my expectations. It is very collaborative environment; everyone truly works together in teams, cross departments. Importantly true cutting edge science is being done at UCB. UCB prides itself on this. We have incredible technology platforms, allowing us to do some really novel research, generating new drugs to bring value to patients. I really enjoy working at UCB, everyone is very supportive, and it is a great place to work.



## AVI DAS

Senior R&D Manager  
Reckitt Benckiser

Avi Das is a Senior R&D Manager at RB, with over 17 years' experience in the Fast Moving Consumer Goods industry. He has worked across multiple areas of Research and Development including technology sourcing, open innovation management, product and packaging development, project management and end-to-end innovation delivery. Avi is passionate about the application of science and technology to products that are designed for consumer use and benefit. He also believes strongly in nurturing talent and is heavily involved in RB university engagement and student development programmes.



## BOB RASTALL

Professor  
University of Reading

Bob is Professor of Food Biotechnology in the Department of Food and Nutritional Sciences at the University of Reading. He has a degree in Applied Biology and a PhD in microbial biochemistry from the University of Greenwich. He spent six years at the University of Westminster as a postdoc before joining Reading as a lecturer in 1993. Bob recently spent eight years as Head of Department during which time he was involved in the recruitment of academic staff at all levels and he regularly sat on promotion panels and advised staff on promotion issues. He currently mentors two young academics and sits on the Departmental and School Athena SWAN committees. He teaches biochemistry, enzymology and toxicology to undergraduate and postgraduate students and he provides training courses to PhD students through the University of Reading Graduate School. His research interest are in the area of manufacture of functional food ingredients with a focus on utilising food processing wastes as raw materials.



## DALE STARKIE

Research Scientist, Antibody  
Discovery - Variable Region  
Discovery and Engineering UCB

I am currently working as a research scientist within the Antibody Discovery group at UCB utilising UCBs proprietary CORE antibody discovery platform. I am actively involved in single B cell-based antibody discovery technology development using flow cytometry and microfluidics. This led to a recent publication on a novel technique for antibody discovery using single B-cell sorting via FACS. I am also currently pursuing a PhD in molecular neuroscience & antibody engineering with University College London Institute of Neurology utilising multiple antibody technologies and engineering approaches to elucidate possible mechanisms of dementia. I have worked at UCB for 5 years starting as a fresh graduate with a year in industry. In my experience UCB is an excellent place to work fostering innovation and exciting science. Whilst also giving excellent opportunities to young scientist to work on exciting projects, take part in fantastic science and progress their careers with a range of development opportunities.



## DAVID KIRK

Senior Scientist  
CHAIN Biotechnology Limited

David is a Senior Scientist with CHAIN Biotechnology, a recent healthcare biotech start-up. He joined CHAIN in 2015 as an expert in strain development of Clostridium spp. bacteria, also functioning as the start-up's de facto web content and social media administrator. Prior to entering industry, David gained considerable experience working on Clostridium during his PhD studies at the University of Helsinki, Finland, as part of a pan-EU Marie Curie research fellowship network based at the University of Nottingham. Whilst finishing his thesis and seeking post-doctoral work, David earned a Diploma in journalism and media from Dublin Business School, Ireland, which has proven to be a valuable asset in his current position.



## DOUG HOWARD

New Market Development Manager  
Bouygues E&S Ltd

Doug has been instrumental in developing the sector for Bouygues since he first joined the business as a self-employed freelance back in 2007 and his role today covers a wide range of responsibilities mainly new or sector development, scale up and spin through to major turnkey design and build projects in excess of £20 million. He has also been acknowledged as skilled in all aspects around the complexities of high tech scale up and often sort outside of Bouygues for his input.



## EMMA STOKES

Process Analytical  
Technologies Group Lead  
Centre for Process Innovation

Emma leads the Process Analytical Technologies Group within CPI. The team conduct chemical and biochemical measurements to support the Bio-Chemical process optimisation and development, using an array of chemical measurement techniques. Her specialist skills lie in the development of measurement techniques to monitor both gas and liquid reactants, products and by-products, to aid process optimisation. After graduating from Lancaster University with a BSc (Hons) in Chemistry in 2002, Emma continued her education, completing an MSc in Pharmaceutical Analysis from Kingston University. In 2010 Emma completed an industrial sponsor PhD, in collaboration with Kew Gardens, focused on the development of methods to measure chemical and toxic species in plants, in order to improve environmental phytoremediation strategies.



## GORDON JAMES

Science Leader  
Unilever

Gordon originates from Glasgow, Scotland and was educated at University of Glasgow, graduating with a BSc and PhD in Biochemistry in 1987 and 1991, respectively. He then did a postdoctoral fellowship at University of Strathclyde in the area of environmental biotechnology, during which time he began practicing his favoured discipline of microbial biochemistry. Gordon joined Unilever R&D in 1993, and in the time since, his main focus has been using his microbiology and biochemistry skills to unravel the origins of axillary (underarm) odour. His current role is to provide scientific leadership to a UK-based team specialising in this topic on behalf of Unilever's Deodorants category and the global Genesis project, Human Hygiene.



## HEATHER GRAZ

Laboratory manager  
Neem Biotech

I am a Biochemist who cut my teeth in Industrial Biotech at one of the world's largest natural enzyme producers in South Africa. Since moving to Wales and Neem Biotech as a Senior Scientist, I have moved to senior management as Laboratory manager, looking after Molecular biology, Microbiology and Analytics. I have 9 years' experience in commercial protein purification process development, optimization and management.



## HOLLY JONES

R&D Assistant  
Reckitt Benckiser

Holly is a R&D Assistant at RB and works for Air Wick® developing new and existing products. She graduated in 2016 from the University of Sheffield after studying for a MChem degree (Chemistry with Study in America). She loves the fast-paced, results-driven nature of RB and also enjoys being involved in various RB University- and schools-engagement events.



## IAN HIGGINS

Analytical Chemist  
Calysta

I am employed as an Analytical Scientist by Calysta at the Wilton Centre in Middlesbrough. I am responsible for the day to day running of the laboratories and the development of new methods to support the fermentation process. I have 25 years' experience in the chemical industry focusing on analytical chemistry during this time I have worked for Johnson Matthey, Huntsman and GlaxoSmithKline. Analytical techniques I have used include HPLC, GC, AAS, ICP, CIC, UV-Vis and classical wet chemistry.



## IAN HODGSON

Head of Molecular Biology  
R&D Fujifilm Diosynth Biotechnologies

Dr Ian Hodgson is Head of Molecular Biology for Fujifilm Diosynth Biotechnologies. He did a degree in Biochemistry, a PhD in Molecular Biology, and after the obligatory post-doc, started work for ICI then as a Molecular Biologist in 1989. He has since worked for five different companies (Zeneca, Avecia, Merck, Fujifilm) His current area of responsibility is Head Of Molecular Biology, which covers a range of activities in both Microbial and Mammalian Expression Systems.



## IFEYINWA RITA KANU

Women's Engineering Society

Ifeyinwa Rita Kanu is a researcher (PhD) in Civil Engineering with progressive experience in all aspects of Civil Engineering, speciality in environmental option. Member of CIWEM (Chartered Institute of Water and Environmental Management), WEF (Water Environment Federation), Women's Engineering Society, POWERful women, ADNET ( Anaerobic digester network), FoodWasteNet and CBMNet. Adept in innovation, excellent interpersonal skills and ability to develop new analytical techniques. She is the pioneer of Heriot Watt female in engineering and science forum, a platform that is dedicated to encouraging young females to develop an interest in and excel in STEM related fields.



## JANE SIMMS

Careers Adviser for Researchers  
University of Sheffield

Employed to work with early career researchers (PhDs and research staff on fixed term contracts) at The University of Sheffield (TUOS) where I offer one to one career coaching, deliver careers and employability skills sessions. Project manage our Sheffield University GRADschool- SUGS - professional development course for researchers across all disciplines.. Renamed Doctoral Skills Academy (Sheffield GRADschool). Involved with other groups such as Vitae and my professional organisation, the Association of Graduate Careers Services - Aggas, though the Research Staff Task Group of which I am now a former member. This group surveyed academics on 'Getting the First Lecturing Job'. Results presented at Vitae national conferences.



## JEFF GREEN

Professor  
University of Sheffield

Professor Jeff Green is from the University of Sheffield, where he is a professor in Microbial physiology, biochemistry and gene regulation. His research interests lie transcriptional and physiological adaptation of microbes to changes in oxygen availability and other environmental and metabolic stresses. He is the PI for a BBSRC Network in Industrial Biotechnology and Bioenergy (NIBB) CBMNet that is focused on the transport of substances across biological membranes. Jeff has published over 120 research papers and reviews, been awarded ~£9 million grant funding and has a h-index of 48.



## JONATHAN MOSELEY

Projects Director  
CatSci Limited

Jonathan Moseley obtained his BSc in chemistry from Southampton University in 1986 and a bio-organic based PhD from Cambridge University in 1992. He worked as a discovery chemist for Merck Sharp and Dohme for three years both before and after his PhD. In 1996 he moved to Zeneca (now AstraZeneca) as a process development chemist where he worked on pharmaceutical projects in all stages of development from early route selection, large-scale lab and pilot plant scale-up, through to established manufacturing processes. His research interests included the application of new technologies to chemical synthesis, notably microwave chemistry. At the start of 2011, he joined a group of former AstraZeneca colleagues to form their own company, CatSci Ltd, which delivers expertise in the development, optimisation and understanding of scale-up processes, and especially bio- and chemo-catalysed and other challenging reactions within the chemical research, development and manufacturing sectors. At CatSci he is the Projects Director, leading commercial project delivery and the scientific research programme.



## JONATHAN KENNEDY

Group Leader  
INVISTA

Jonathan Kennedy was an Undergraduate and has a Phd from Sheffield University. He is experienced in the management of diverse and interdisciplinary research projects and has considerable experience in synthetic biology, molecular biology for manipulation of many microbial species and metagenomics. He has worked for BioTech Companies and in Academic Research for 20+ years. He is currently a Group Leader for INVISTA.



## KAREN WOOD

Advanced Biomanufacturing  
Centre Manager  
University of Sheffield

With a background in science and management, Karen has many years' experience working in both the public and private sectors, successfully combining both aspects. Initially employed in research laboratories, she took on a commercial role before moving to a UK cancer charity where she was responsible for the rapid and sustained growth of one of the technology transfer business areas. Later, Karen moved into HE where she took responsibility for various areas including Intellectual Property, Commercialisation and Enterprise and Entrepreneurship. Since moving to Sheffield, Karen has been an award winning Business Incubation Manager at Sheffield Technology Parks before becoming a self-employed business advisor and keen supporter of providing young people with transferable skills for the workplace. Now at the Advanced Biomanufacturing Centre, Karen is responsible for connecting business and academia, through research collaborations and commercial opportunities, as well as developing industry based education programmes.



## KEITH THOMAS

Director  
Brewlab

Keith Thomas is director of Brewlab Ltd and teaches microbiology and biotechnology at the University of Sunderland. He has worked with the brewing industry for 30 years and conducted a range of investigative projects into brewing topics including yeast physiology, novel brewing ingredients, the use of brewery by products and the recreation of historic beers. He is also a director of the Darwin Brewery and enjoys applying his microbiology to producing classic and novel beers for commercial sale. Keith can provide career focus on the food and beverage industry in general not just specifically on Brewlab.



## LIZ JENKINSON

Head of Strain Development  
Green Biologics Ltd

Liz Jenkinson has a BSc in Molecular Genetics (Sussex), a PhD in Biology (York) and joined Green Biologics Ltd in 2007 as a senior research scientist. Since 2014 she has headed up the strain development and analytical chemistry groups and currently directs GBLs efforts in generating advanced Clostridial microbes using proprietary technology (CLEAVE™) to look beyond bio-butanol. Liz also leads on the company responsible research and innovation (RRI) strategy, is on the BIA synthetic biology committee and is a STEM ambassador with an interest in diversity and mentoring in science.



## LUCY OWENS

Owner  
Lucy Owens Coaching

Lucy set up her coaching and training business in 2011. Before that, she worked as an HR development manager at Sheffield Hallam University. Prior to that, she was a Learning and Development Consultant with the BBC – delivering workshops on the award-winning BBC leadership development programme and doing executive coaching with BBC managers. Before this, Lucy was a BBC radio journalist with the World Service and BBC Radio Sheffield.



## MANDY HARDING

Senior Molecular Biologist  
Green Biologics Ltd

Mandy Harding has a BSc in Biochemistry and a PhD in Molecular Biology (both Aberdeen). She left academia in 2009 for a one-year graduate internship at Green Biologics Ltd which led to her joining the company as a senior scientist in 2010. Her main role involves the development and use of proprietary GBL technology (CLEAVE™) in Clostridia to engineer existing metabolic pathways or introduce new genes that enable the microbes to convert waste feedstocks into useful chemicals. She currently manages a small team of scientists and technicians as well as overseeing health and safety management of the UK team. Mandy is also a STEM and SIP ambassador, and a member of the scientific advisory board for WISB.



## MATTHEW HODGES

Strategy & Business Development  
Oxford Biotrans

Matthew Hodges has a background in molecular biology, having first received a BA in Biological Sciences, followed by a D.Phil from the University of Oxford. He subsequently worked at Mars & Co. Consulting where he worked across the FMCG, Life Sciences, Agrochemical, Auto and Aerospace industries in a broad range of commercial engagements, including corporate strategy, product strategy, commercial due diligence and valuation, before joining Biotrans to help build out the team and business.



## MURRAY BROWN

Principal Scientific Investigator  
GSK

Dr Murray Brown, Principal Scientific Investigator, Synthetic Biochemistry has 20 years' experience in pharmaceutical industry and is a member of the Synthetic Biochemistry team within the Advanced Manufacturing Technologies group developing capabilities for faster, better development of biocatalysts and Synthetic Biology approaches leading to robust biological processes for manufacturing drug substances. He is Coordinator for Chem21, Europe's largest public-private partnership dedicated to the development of manufacturing sustainable pharmaceuticals, and is on the Scientific Advisory Boards for BrisSynBio, SynBioChem, SynBioCDT and biocatnet.



## NIENKE LUBBEN

Patent Lawyer  
HGF

Nienke is a European and UK Chartered Patent Attorney with considerable experience in the biotechnology and life sciences fields. She started in the profession in 2007 after completing a PhD in Clinical Biochemistry from the University of Cambridge. She chose this career because it requires an in-depth knowledge of science but is also commercially focused and challenging. The diverse scientific subject matter and legal aspects of the job mean that no two days are the same!



## PATTANATHU RAHMAN

Director  
TeeGene Biotech Ltd

Dr Pattanathu Rahman is a Director of TeeGene Biotech Ltd. and Senior Lecturer in Process Engineering and Biotechnology with 20 years' research experience on novel biotechnological approach in bioproduct development. He is a recipient of TU Enterprise Project of the Year - 2016 award and SAB Award of Excellence in Microbial Biotechnology. He is a Fellow of Society for Applied Biotechnology, Member of the Institute of Environmental Science and IChemE. His research on biosurfactants led to the creation of the spin-out company TeeGene Biotech based at the Wilton Centre near Middlesbrough. The company was runner-up at IChemE - Best Business Start-up award 2015 and IBLF award 2015. Dr Rahman has completed a doctorate degree in Microbiology at Bharathiar University (India). He has worked as Postdoc fellow at the University of Ulster and Brookhaven National Laboratory (New York, USA) and completed an 'Advanced Biologics' course at the University of Cambridge in 2008.



## PETER PHILLIPS

R&D Associate  
Reckitt Benckiser

Peter is an R&D associate at RB. Having successfully completed the Future Leadership programme he is now leading a small product development team. He loves working in the diverse and energetic environment, and is passionate about delivering innovative products which have a strong benefit to the consumer.



## RACHEL VINCENT

Owner  
Rachel Vincent Editorial

As a CV writer, I have worked with individuals at all stages of their academic careers. I have helped them to secure academic research and teaching posts, or to successfully transition from their chosen areas of study into commercial roles within industry. Having reviewed and written a great many CVs, for academics as well as for those within commercial environments, I understand the specific CV requirements of both academia and industry and know exactly how candidates can present a professional and powerful first impression.



## ROSANNA PEACOCK

BBSRC

Rosie is a Business Interaction Manager at the BBSRC and manages the delivery of a wide range of activities to ensure that business can benefit from BBSRC's investments in the UK's world leading bioscience research. Rosie primarily works in the area of Industrial Biotechnology, particularly on the BBSRC Bioprocessing Research Industry Club and Industrial Biotechnology Catalyst, but is also involved with the new BBSRC Aquaculture network. Rosie has worked at the BBSRC for two and a half years and previously held a role in the Grants Delivery team, where she managed committees for a number of funding calls, including Responsive Mode. Rosie has a background in molecular biology and cancer research.



## SARAH GAUNT

Director  
SPG Innovation

Sarah Gaunt has extensive experience of taking products and processes from 'once in the Lab' to commercial reality. With a background in commercialising intellectual property within short timelines to produce profitable business opportunities. Specialising in developing IP from Academic source and providing the translation to large businesses. This involves a number of multimillion dollar licensing deals for innovative food ingredients launched on a worldwide scale. Experienced in setting up and running start ups and spin outs.



## SERGE VAN KLEE

Managing Director  
SPG Innovation

Serge Van Klee has a wealth of experience starting around the mid-1990s in the Food Ingredients, Nutraceuticals & FMCG market place. Working with key players in the market place like Ocean Nutrition Canada Limited (ONC), the world's largest supplier of Omega-3 EPA/DHA ingredients to the dietary supplement and food manufacturing markets. Commercially focused with clear ability of identifying new opportunities and maximising potential with drive and determination to succeed and follow through on projects in the Food ingredient, Nutraceutical and FMCG market place.



## TITHIRA WIMALASENA

Senior Fermentation Scientist  
Calysta

Tithira Wimalasena is employed as a Senior Fermentation Scientist responsible for large-scale fermentation activities at Calysta. Prior to joining Calysta Tithira was a Fermentation Scientist at Butamax (Joint venture between Dupont and BP) the pilot plant facilities producing biobutanol and was responsible for the BP fermentation experiment facilities and supervised many project students as an industrial partner. She has more than fifteen years of experience in Industry and academia and she has graduated from University of Nottingham in PhD in Molecular Microbiology.

“ There are such a wide range of careers in Industrial Biotechnology and Bioenergy, that cross so many disciplines. Today is your chance to explore them. ”

Professor Jeff Green, Director CBMNet

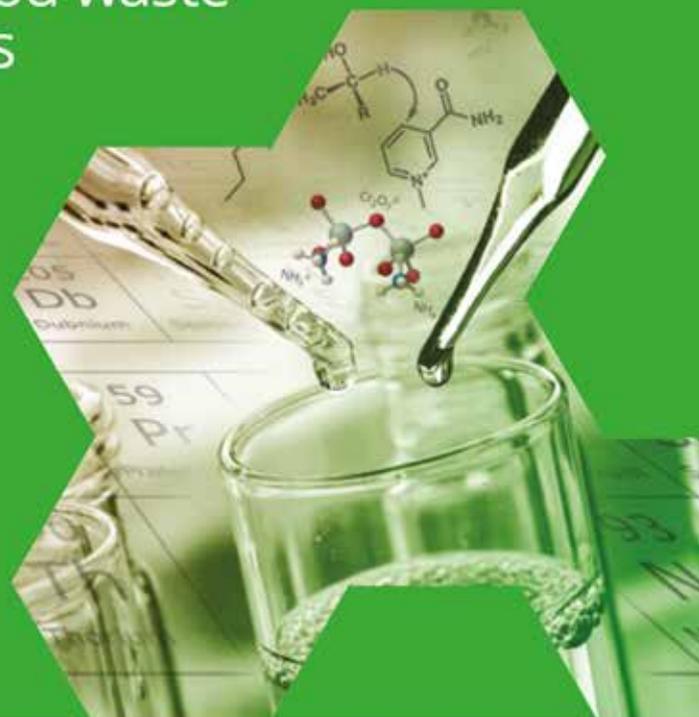
**ENHANCING THE UNDERSTANDING  
OF HOW SUBSTANCES ARE  
TRANSPORTED INTO, WITHIN,  
AND OUT OF CELL FACTORIES  
TO ADVANCE INDUSTRIAL  
BIOTECHNOLOGY AND BIOENERGY.**

**MEMBERSHIP IS FREE**

Our members can take part in any of our network activities and apply for the numerous funding opportunities we have to offer.

Join us NOW! [www.cbmnetnibb.net](http://www.cbmnetnibb.net)

Deriving increased  
value from food waste  
& by-products



FoodWasteNet is an active community of industrial practitioners and academic scientists. We aim to realise the potential of using food waste and by-products to produce renewable chemicals & biomaterials with added value and market potential.

**Membership of FoodWasteNet is free**

[www.foodwastenet.org](http://www.foodwastenet.org)

# SOMETHING FROM NOTHING

## Chemicals from Waste C1 Gases

C1net champions research into the use of “gas-eating” microbes to ferment polluting greenhouse gases (CO, CO<sub>2</sub> & CH<sub>4</sub>) from landfill and industry, into useful products e.g. biofuels and plastics.

**CLEAN** ✓ **CHEAP** ✓ **SECURE** ✓



C1net is one of 13 Networks in Industrial Biotechnology & Bioenergy funded by the BBSRC (BBSRC-NIBB) to create interaction between industry and academia and initiate collaborative research projects to encourage the growth of Industrial Biotechnology in the UK.

**FREE  
MEMBERSHIP**  
[www.c1net.co.uk](http://www.c1net.co.uk)

[www.sbrc-Nottingham.ac.uk](http://www.sbrc-Nottingham.ac.uk)

 @C1Net\_NIBB



## High Value Chemicals from Plants

The **HVCfP Network** aims to position the UK as a leading producer of high value chemicals from plants. Our focus is identifying novel plant products, and optimising and developing both feedstocks and processes *in planta* or alternative production systems. The Network provides leadership to address key technology challenges limiting the development of high value chemical based products from plants; covering the entire discovery, development and delivery chain for high value chemicals.

**HVCfP membership** is free and offers many benefits: please see our website for further details.

[www.HVCfP.net](http://www.HVCfP.net)

@HVCfP\_net

**Director**  
**Prof Ian Graham**,  
University of York  
**Deputy Director**  
**Prof Anne Osbourn**,  
John Innes Centre

**Network Managers**  
**Dr Caroline Calvert**  
[caroline.calvert@york.ac.uk](mailto:caroline.calvert@york.ac.uk)  
**Dr Wendy Lawley**  
[wendy.lawley@york.ac.uk](mailto:wendy.lawley@york.ac.uk)



LBN Net is an active community of industrial practitioners and leading academics dedicated to creating economic value by developing novel chemical, material and fuel using lignocellulosic biomass instead of petroleum-derived inputs.

LBN Net provides both access to a range of **funding** and organises **events**:

### Funding

- Business Interaction Vouchers
- Funds for proof of concept
- Consortium building funds

### Events

- Challenge workshops
- Annual conference
- Early stage career events

**Free Membership  
Open to all**

For more information and to become a network member visit our website:

[www.lb-net.net](http://www.lb-net.net)



high value products from microalgae

#### What is PHYCONET?

A UK-based network, supporting collaboration between academia and industry. The focus is high value products from microalgae and cyanobacteria industrially cultivated using PBR and fermentor-based technologies.

#### What does PHYCONET do?

- ✓ provides funding for research projects
- ✓ organises free networking events
- ✓ sponsors events in microalgal research
- ✓ organises outreach activities

#### Free membership

- ✓ apply for funding
- ✓ attend PHYCONET events
- ✓ access our members' directory
- ✓ access forum on website

#### Funding

##### Business Interaction Vouchers

Apply for up to £10,000 to support new and existing collaborations between academia and industry.

##### Training & Conference funding

Members can apply for up to £750 to present their research at a relevant conference or attend a training event.

#### What can PHYCONET do for you?

##### Academic members

Help establish links with the business community and provide funding for carrying out industry-relevant research.

##### Industry members

Help your business become more competitive, by funding collaborative projects with leading academics.

[www.phyconet.org.uk](http://www.phyconet.org.uk)

A BBSRC NIBB (Networks in Industrial Biotechnology and Bioenergy)



# AD NETWORK

Harnessing Anaerobic Digestion

*"Networking is about connecting people with people, people with ideas and people with opportunities"*



## What can the AD Network do for you?

If you work in industry, participation in the AD Network gives you access to world-class expertise and research, which can help your business to become more sustainable and competitive through solving problems or creating collaborations that will help you apply for funding opportunities.

If you are an academic, we can put you in touch with our business contacts who are looking for your expertise or for collaborations to access funding opportunities in order to carry out industry-relevant research.

The AD Network offers two funding strands to members of the Network:

**Business Interaction Vouchers** – Up to £5,000 to encourage initial collaborations between industry and academia

**Proof of Concept Funds** - Up to £60,000 to help identify and scope commercial and scientific challenges

Our members come from all sectors: academia, business, government and NGOs. Membership is free and further benefits include:

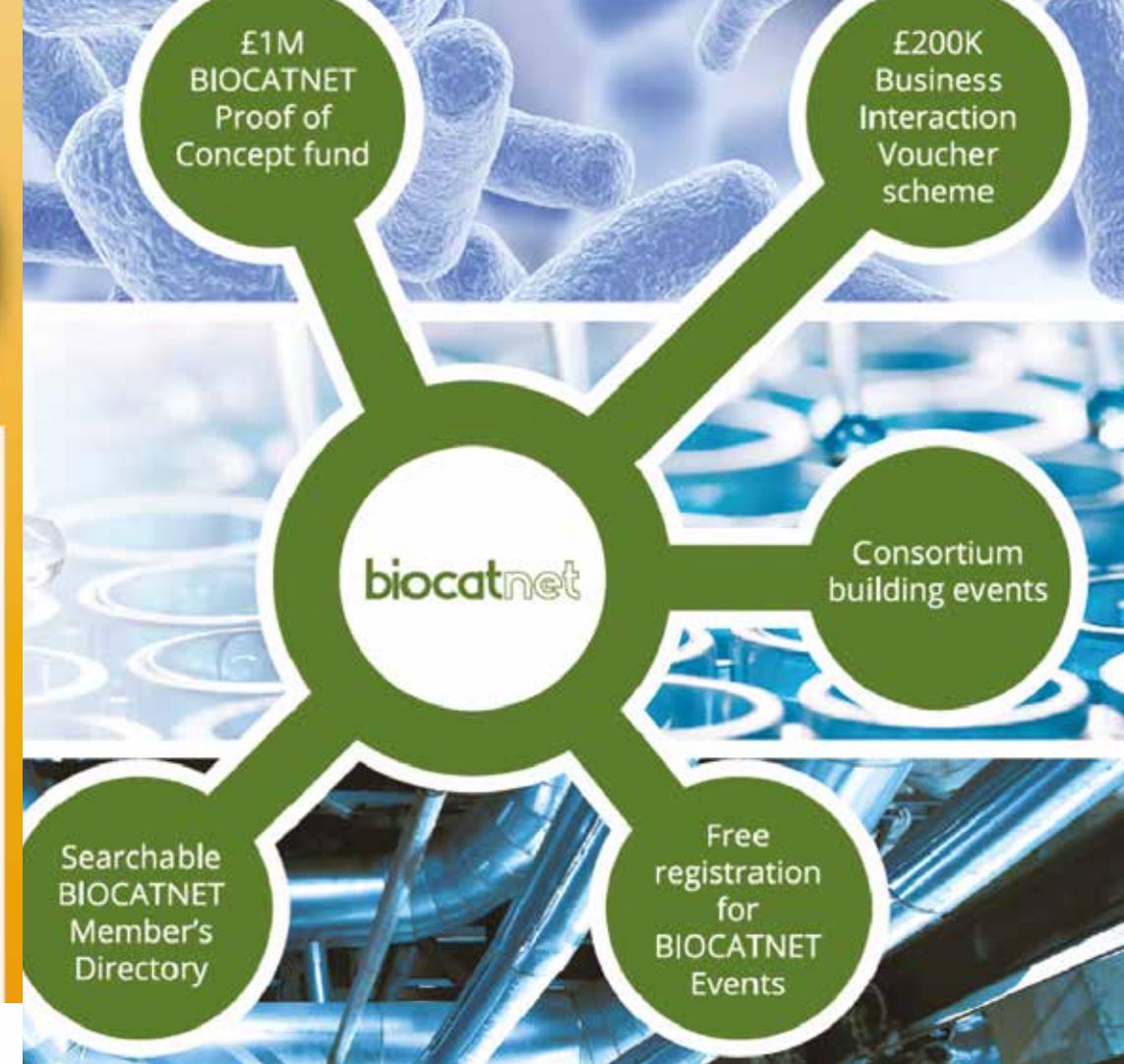
- ✓ interesting and informative free/low-cost research conferences with national and international speakers who are experts in their fields
- ✓ access to free sandpit events to identify immediate and long-term research needs
- ✓ opportunities and funding for early career researchers
- ✓ promotion of your work or research through our newsletter, website and social media
- ✓ access to other events, information and funding opportunities from 12 further Networks in Industrial Biotechnology and Bioenergy

Our Network is divided into 6 broad Working Groups which cover all areas of AD and members are welcome to participate in multiple groups:

1. Biomolecular tools
2. The VFA factory: extraction, downstream processing and conversion
3. Optimisation of anaerobic digestion processes
4. Feedstock enhancements, novel feedstocks and new markets
5. Process integration and modelling
6. Environmental interactions and societal challenges



For membership applications, events, funding opportunities and further details on our Working Groups, please visit our website at [www.anaerobicdigestionnet.com](http://www.anaerobicdigestionnet.com)



Supporting innovative research and fostering new collaborations, helping Industry to access the world-leading expertise in UK Biocatalysis research. Together, delivering tools and applications for the whole IB Community.

# GET IN TOUCH

The University of Sheffield  
E100 Addison Building, Firth Court  
Western Bank  
Sheffield, S10 2TN

+44 (0) 114 2229766

[cbm@sheffield.ac.uk](mailto:cbm@sheffield.ac.uk)  
[www.cbmnetnibb.net](http://www.cbmnetnibb.net)



@CBMNet\_NIBB



find us on linkedin