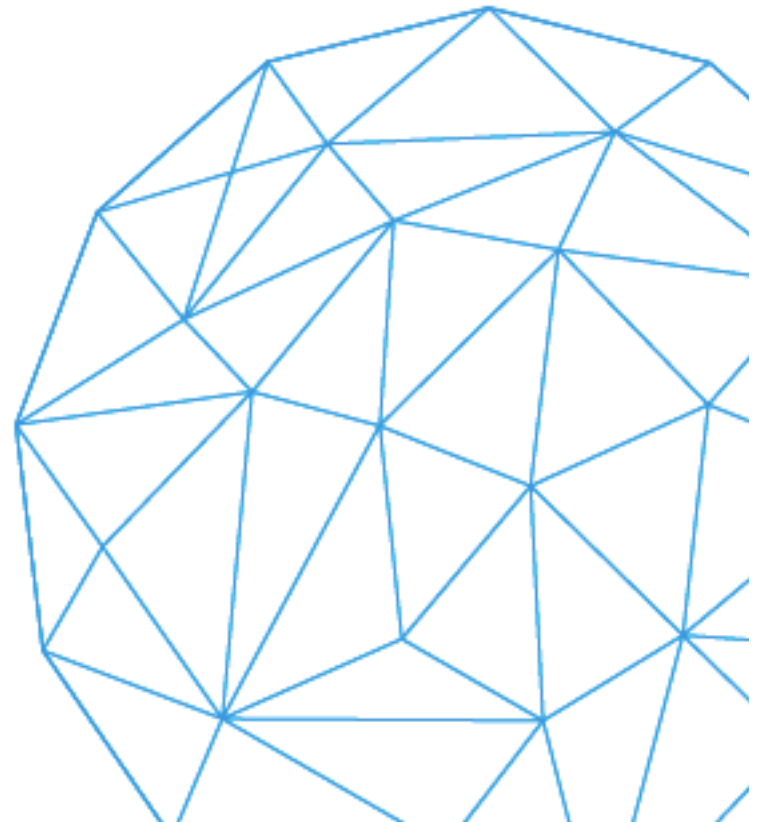


# Institute for Mathematical Innovation



UNIVERSITY OF  
**BATH**



# Our People

Bath Institute for  
Mathematical Innovation



**Aim: Stimulate more industrial and interdisciplinary maths**

# Commercial RA Model

Enabling short-to-medium term and/or part-time

- Commercial projects
- Interdisciplinary research projects



For consultancy:

- combine CRA time with academic time,  
typically 10:1 ratio

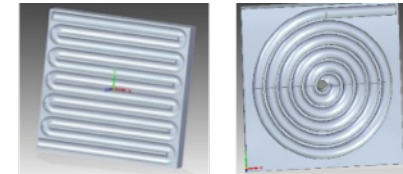


# Innovation Pipeline (1)

Bath Institute for  
Mathematical Innovation



*Development of water treatment units*



Global Challenges  
Research Fund  
pilot funding



Jonathan  
Evans

# Innovation Pipeline (2)

## Chicken maths

Consultancy



EE undergrad  
project



Interdisciplinary PhD



...

*Hen consumer  
opinions*



*Chicken beaks*



*Chicken sleep*



## AGRI-FOOD MATHEMATICAL SCIENCE STUDY GROUP WITH INDUSTRY

Institute for Mathematical Innovation,  
University of Bath  
16.01.17 – 18.01.17  
For more information or to register interest for  
the event please visit:

[go.bath.ac.uk/afsg](http://go.bath.ac.uk/afsg)  
or contact:

[matt.butchers@ktn-uk.org](mailto:matt.butchers@ktn-uk.org)  
[J.F.Jordan@bath.ac.uk](mailto:J.F.Jordan@bath.ac.uk)  
[david.telford@ktn-uk.org](mailto:david.telford@ktn-uk.org)

**SAVE  
THE  
DATES!**  
16 –18.01.17



### **Background:**

Agri-food is an important industry, with the UK agri-food supply chain contributing £ 97 bn to the economy in 2012. Major challenges face the sector: feeding a rising population, climate change and the need for sustainable intensification.

*“Modern-day applied mathematics can be used with high impact on farm systems and precision agriculture. It provides excellent decision-support tools and brings a degree of rigour to the industry, which has often been lacking in the past. The agricultural industry has been relatively late in choosing to bring mathematics to bear on the processes involved”* - Prof. Graeme Wake, Massey University, New Zealand, Mathematics in Agriculture KTN Workshop (2015).

**Format:** Representatives from agri-food industry will present their problems on the first day. Researchers in mathematics, statistics, engineering, computer science and related areas will work together towards practical solutions, and first steps in approaching problems. Early career

academics, Ph.D students, and postdocs from the mathematical sciences are particularly welcome.

**The Problems:** The problems to be tackled by the Study Group attendees will be set by SMEs from the Agri-Food sector (from primary production to food processing). The problems (likely to be three) will be announced in due course.

**Why Take Part?:** **Academics:** Get new research questions. Expand research portfolio. Vital contacts with industry. Meet other academics from different fields. **Industry:** Get new solutions to problems. Access highly qualified individuals. Obtain a written summary report.

**Costs to Take Part:** We gratefully acknowledge the financial support from Innovate UK so there is no cost to SMEs to pose a problem. However, for all other participants there will be a nominal registration fee of £ 30 including accommodation and meals. Registration is open until 05.12.16.

