

RESEARCHERS



223

223 STRONG
agrifood RESEARCH
COMMUNITY



118

118 PhD STUDENTS
in the area
of AGRIFOOD

£13m

Received £13 MILLION
EXTERNAL FUNDING
over 5 years

CHALLENGES AND HOW MANCHESTER IS TACKLING THEM

**1/3 OF FOOD
PRODUCED IS
LOST OR WASTED**



WE WORK WITH JUNK
FOOD CAFES
in the North West and
valorisation routes of
SPENT COFFEE GROUNDS
TO BIODIESEL



We are studying
the biology of CUCUMBER
WASTAGE with the aim
of IMPROVING SHELF LIFE

**MAKING FOOD SAFER
FOR PEOPLE
WITH ALLERGIES**



We are WORKING WITH
PARTNERS from AROUND
THE WORLD to identify levels
of allergens in foods that are
unlikely to cause a reaction
so that precautionary
allergen label (PAL)s are
only used when needed

Through the Manchester
Food Allergy Network we are
working WITH THE FOOD
INDUSTRY, retailers and
analytical service
laboratories to HARMONISE
and IMPROVE allergen testing

**MALNUTRITION IN THE
ELDERLY IS A MAJOR
SOCIAL CHALLENGE**



WE ARE LEADING the
evaluation on the SALFORD
PAPERWEIGHT ARMBAND
PROJECT WITH AGEUK
a non-medical, non-intrusive
tool used to identify and
deal with malnutrition

**1/4 OF ALL
GREENHOUSE
GASES
COME FROM FOOD**



Our facilities include a
MOBILE GREENHOUSE
GAS LABORATORY
for MEASURING ON FARM
SOIL EMISSIONS



We have researched the
ENVIRONMENTAL IMPACT
of different food products,
SUCH AS CHOCOLATE



We talk with the public about
food choices, greenhouse gas
emissions and climate change,
including at the ROYAL
SOCIETY SUMMER
SCIENCE EXHIBIT
WITH >6000 PEOPLE

**25% OF LAND IS
HIGHLY DEGRADED**



We are PART OF A
£522,000 PROJECT on
RESTORING SOIL
FUNCTION and resilience
to degraded grasslands

**POOR MANAGEMENT
OF FERTILISERS IS THE
PRIMARY SOURCE
OF GREENHOUSE
GASES FROM
ARABLE AGRICULTURE**



LOW-COST
MULTISPECTRAL
IMAGING SYSTEMS
that detect crop response
to nutrients are being
DELIVERED FROM
MANCHESTER
to STREAMLINE FERTILISER
NEEDS versus crop and
soil health requirements

**INCREASING CHEMICAL
RESISTANCE OF CROP
DISEASES AND PESTS**



WE ARE DEVELOPING
SMART SENSING
SYSTEMS to detect early
plant stress as well as
the pre-infection stages
of pathogens to improve
the efficiency of treatment

**MILLIONS OF
SMALLHOLDER FARMERS
LACK ACCESS
TO RELIABLE AND
COST-EFFECTIVE
IRRIGATION**



WE ARE ASSESSING
AND DESIGNING
TECHNOLOGICAL and
institutional solutions to
IMPROVE WATER ACCESS
and livelihoods of small-scale
farmers in Africa and Asia

N8 AGRIFOOD PROGRAMME



N8 AgriFood Programme
has been FUNDED
SINCE 2015



FUNDED 32 PROJECTS a
TOTAL OF £300K through
the N8 AgriFood pump
priming scheme



>550 PEOPLE
registered
at N8 AgriFood
UOM EVENTS



>10 TV APPEARANCES
and >30 ARTICLES
featuring our research
in the press



OUR RESEARCH
HAS CONTRIBUTED
to parliamentary
inquiries on agriculture