



Applications open for Applied Bioscience PhDs

12 BBSRC funded, 4 year PhDs available, starting October 2024
Find out more at [Projectsfor2024 \(ctp-sai.org\)](https://projectsfor2024.ctp-sai.org) Applications close 7th January 2024

Regenerative farming systems for potato production Dr Paula Misiewicz (HAU), Prof Jim Monaghan (HAU),
Dr Edward Dickin (HAU), Dr Shaunagh Slack (PepsiCo), Dr S McWilliam (PepsiCo).
Ref. CTP-SAI-052

Shining light on Potato: can light treatments accelerate breeding and reduce fungicide usage?
Dr Eleanor Gilroy (JHI), Dr Gabriela Toledo-Ortiz (JHI) Dr Ingo Hein (U. Dundee).
Ref. CTP-SAI-063

Understanding genotypic variation in potato hybrid populations of root morphological and anatomical characteristics – identifying traits for a climate resilient potato. Prof Tim George (JHI), Dr Darren Wells (U. Nottingham), Dr Jonathan Atkinson (U. Nottingham), Dr Michiel de Vries (Solynta), Dr Edwin van der Vossen (Solynta). Ref. CTP-SAI-064

AI-powered dynamic phenotyping of plant-parasitic nematodes Dr Sebastian Eves-van den Akker (U. Cambridge), Prof. Ji Zhou (NIAB), Dr Philippa Harlow (Syngenta), Dr Anthony Flemming (Syngenta).
Ref. CTP-SAI-065

From regenerative farming to restoration: assessing the environmental impacts of future management changes in UK lowland peatlands Dr Nick Girkin (U. Nottingham/Cranfield U.), Dr Lydia Smith (NIAB), Ron Stobart (Sainsburys). Ref. CTP-SAI-066

'Living with the Enemy'; The crucial role of varietal tolerance in potato cyst nematode management Dr Matthew Back (HAU), Dr Katarzyna Dybal (HAU), Dr James Price (JHI), Dr Misghina Teklu (Wageningen U.).
Dr S Rawsthorne (TMAF) Ref. CTP-SAI-067

Routes towards Net Zero through maximizing soil building processes into lower horizons Dr Lydia Smith (NIAB), Dr Dan Evans (Cranfield U.) Dr S Rawsthorne (TMAF)
Ref. CTP-SAI-068

Exploration into creating bruise resilient 'Maris Piper' potatoes Dr Sandra Landahl (Cranfield U.), Dr Emma Wallington (NIAB), Dr M.Carmen Alamar, (Cranfield U.) Ref. CTP-SAI-069

Assessing efficient application and emission reduction from using low carbon footprint fertilisers in potato agronomy Professor Ruben Sakrabani (Cranfield U.), Mr Gary Collins (PepsiCo)
Ref. CTP-SAI-070

The potential of naturally occurring, heritable, mutualistic 'persistent' viruses to enhance legume performance Professor John Carr (Cambridge U.), Roger Vickers(PGRO)
Ref. CTP-SAI-073

Functional and Pharmacological Characterization of Insect Inositol-1,4,5-triphosphate Receptors Prof. Graham Ladds (Dept. Pharmacology, Cambridge U.), Dr Taufiq Rahman (Dept. Pharmacology, Cambridge U.), James Goodchild (Syngenta), Dr Federico Dapiaggi (Syngenta). Ref. CTP-SAI-074

Double legumes, multiple benefits? Ecosystem service benefits from combined faba bean (*Vicia faba* L.) and pea (*Pisum sativum* L.) crop-mixtures. Dr Pete Iannetta (JHI), Dr Jacqueline Hannam (Cranfield U.), Prof. Euan James (JHI), Prof Wilfred Otten (Cranfield U.), Roger Vickers (PGRO)
Ref. CTP-SAI-075

Exploring the mechanism underpinning determinacy and nitrogen requirement in potato crops
Dr Johannes Kromdijk (U. Cambridge), Dr Stéphanie Swarbreck (NIAB), Dr Sarah Roberts (NIAB), David Almond (CUPGRA)
Ref. CTP-SAI-076