

# Sustainability Statement

## Bioscience Technology Facility Data Science Hub

As members of the Data Science Hub, we recognise that our work has a significant impact in terms of sustainability. We must aim to lessen this impact wherever possible, and recognise the [University's Sustainability Strategy](#).

### Research-related carbon emissions

- Data analysis tasks on High Performance Computing (HPC) are a significant source of carbon emissions. We can reduce these by:
  - Using the Viking 2 HPC hosted at the eco-conscious [EcoDataCenter](#) in Sweden wherever possible for our work
  - Using “hands-off” pipelines for as much of our analysis as possible and logging the CO<sub>2</sub> emissions from these to better understand them
  - Reducing needless duplication of data, and archive or delete older data frequently
- The computer workstations that we use daily consume electricity and are therefore a source of carbon emissions, and the devices themselves have an environmental impact during their manufacture. We can reduce these by:
  - Turning off computers and monitors whenever possible, especially overnight, at weekends, and during holidays
  - Ensuring that our screen brightness is set to an appropriately low level, that we use dark mode on our devices if possible, and that energy-saving settings put our devices to sleep after a short period of inactivity
  - Sourcing computers from environmentally-minded companies who promote the use of recycled materials and provide a means of recycling old devices

### Personal impact

- Members of the group, students, and other collaborators have a personal responsibility to reduce their personal environmental impact on a day-to-day basis. We can do this by:
  - Developing a culture of **reducing, reusing, and recycling**
  - Using the mixed recycling bins and other [recycling facilities](#) and waste bins (for batteries, glass, etc) appropriately
  - Turning lights off and maximising the use of natural light, setting radiators to an appropriate level, and using natural ventilation by opening windows
  - Reporting dripping taps, leaks, and other sources of water wastage through the [Helpdesk Portal](#)

## Promoting sustainability

- As well as considering our work-related and personal impacts on sustainability, we will promote our group's, and the University's sustainable practices by:
  - Making new group members, collaborators, and clients aware of the ways we are working to be more sustainable
  - Promoting and educating about the [Green Impact award](#) and encouraging others to take part in it
  - Taking part in events—local and national—connected to sustainability and other environmental topics, for instance Butterfly Conservation's [Big Butterfly Count](#) or donating to and/or joining wildlife charities

### Signed by:

*Dr Alastair Droop*

*Head of the Bioscience Technology Facility Data Science Hub*

*Monday, 7<sup>th</sup> April 2025*