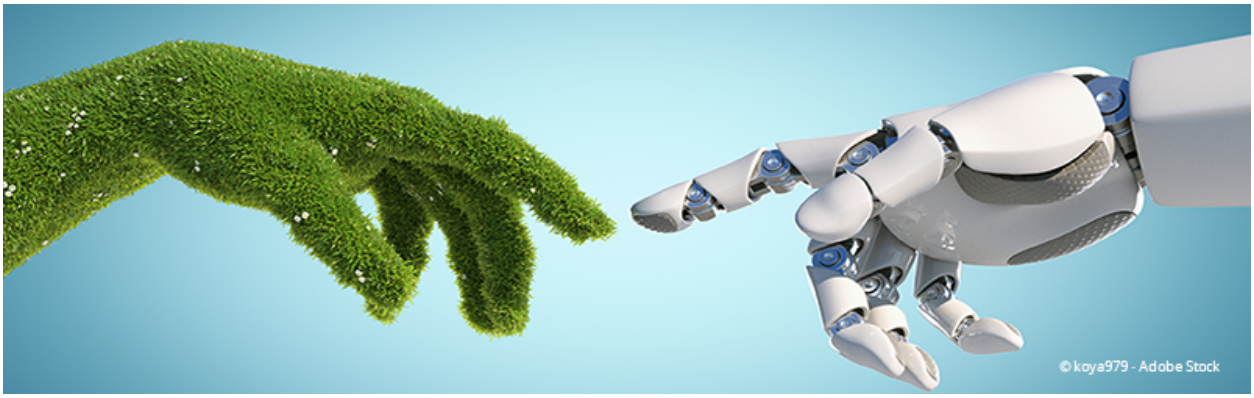

MicroLab@Bristol is recruiting for a 2.5-month research assistant position to help with data generation and annotation for their data science meets microbiology project; 'Convolutional Neural Networks for Environmental Monitoring'.

This Jean Golding Institute funded project aims to provide proof-of-concept for the application of artificial intelligence to problems of environmental monitoring, namely the detection, identification and enumeration of microbial communities from freshwater samples.

The 2.5-month position will involve working within the MicroLab@Bristol and with project partner Dwr Cymru Welsh Water (DCWW) to produce a training dataset of annotated microscope images of dominant microbial communities from freshwater reservoirs, which will then be used to train Convolutional Neural Networks (CNNs) to automate image processing.

The work will involve regular imaging of water samples using bright-field microscopy, image annotation, and if desired, some machine learning script development. The position would suit a recent graduate in geographical, biological, environmental or data science with an interest in the interface between microbiology and data science and a desire to gain relevant experience within these fields. Training in microscopy, microbial identification and machine learning skills will be provided.

To apply, please send a short CV and cover letter to Dr Chris Williamson (c.williamson@bristol.ac.uk), School of Geographical Sciences, University of Bristol.

Salary: £17,361 pro rata for 2.5 months (ideally 1st April – 12th June).