

Apply here**Start date**

September 2023

Duration

6 months

Languages

Good spoken and written English levels are required (B2 onwards)

Location**Bristol, England**

Bristol is the largest city in the South West of England. It has a strong reputation for creativity, digital innovation and social enterprise, and is the home of Oscar-winning Wallace and Gromit and urban artist Banksy. Offering a lively nightlife, bars and restaurants aplenty, musical diversity and many historical sites, in 2017, The Times newspaper voted it 'Best Place to Live in the UK'.

Are you eligible?

You are eligible for an ESPA internship if you are a registered student or have graduated within the past two years and have access to some form of grant funding

Benefits

See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

Role

This is an exciting opportunity for an enthusiastic and eco-minded biochemist or microbiologist to work on a range of pathways for climate technology and sustainable transport fuels. Mentored throughout, as part of a small biology team, you will have the chance to suggest short projects in areas of personal interest within the overall mission of the host company and become a big driving force in their research. Research areas could include biological carbon capture and sequestration, fermentation of higher alcohols from biomass and the characterization of biochar. If you have the required skills and a passion for our planet, this is an opportunity not to be missed!

Tasks

- Fermentations in pilot scale reactors (anaerobic to photosynthetic)
- Quantitative and qualitative characterization of materials, organisms and products
- Data analysis
- Opportunity to contribute to hands-on work in the laboratory and production workshop
- Suggest short projects of personal interest in keeping with the overall company mission

Desired Skills

- Working towards a degree in Biochemistry, Microbiology or similar discipline
- Experience in aseptic technique and general microbiological procedures
- Experience in chromatographic methods such as HPLC
- Practical competence with standard laboratory equipment (autoclaves, balances, spectrophotometers)
- Ideally, experience in operation of pilot-scale bioreactors
- Ability to follow instructions and work independently as well as in a team
- Strong English communication skills

The Host Company

Established in 2003, this green host is the world's leading and longest established manufacturer and installer of biodiesel processing plants that produce the highest quality biodiesel as up to a 100% replacement for fossil diesel. With customers worldwide, their bio-diesel fuels are used in road transport, rail and energy production, including the fleet of vehicles used by the Royal Family! With continued research and development, this company is entering a truly exciting phase in its contribution to sustainability.