

Naughton REU FSTEM Application 2023: OFFER OF TRAINING FORM SUMMER 2023

Proposer details:	
Title:	Associate Professor
Name:	Tom Curran
Email:	tom.curran@ucd.ie
Website:	https://www.ucd.ie/biosystems/
If your grade does not allow you to supervise students, please supply the name of support PI:	N/A

Student required:	
Specify any previous training / experience the student should have:	
Interest in animation/art and knowledge of biological processes would be an advantage.	
Study level (3rd year, 4th year)	Either
Any other requirements:	

Traineeship offered:
Brief job description: (please include (1) type of work, (2) what student should hope to achieve at end of the process, (3) who will supervise student on daily basis (post-doc etc.))
<p>Sustainability, bioeconomy, waste management. The objective is for an intern to work with the project leader Tom Curran in UCD School of Biosystems and Food Engineering along with partners in this European project (BioBeo) to develop learning materials for primary/secondary school students, which showcase practical examples of the bioeconomy (e.g., treating food waste, producing new products from algae, biodegradable plastic, etc.). The project website is at https://www.biobeo.eu/. BioBeo is a 2 year, €2M project with 15 partners, bridging theory and practice. Its overall aim is to develop and deploy an education programme to enhance understanding and engagement across society regarding lifestyle, circularity, and bioeconomy, using 5 bioeconomy themes: interconnectedness, outdoor learning, forestry, life below water and the food loop. A network committed to promoting the bioeconomy concept will co-create and co-deliver the programme. BioBeo will provide for better coordination between bioscience and education in schools by developing the Circular Economy Science-Society message with a particular focus on circular lifestyle/behaviours, and a governance framework on society-wide engagement in bioeconomy policy. BioBeo will address social issues such as gender bias, disadvantaged youth groups, migrants, and members of society with additional needs. We shall</p> <ol style="list-style-type: none">1. increase awareness of environmental, social, and economic benefits of sustainable and circular bioeconomy among young people at pre-school, primary and secondary school level2. identify institutional and cultural barriers3. develop innovative approaches and digital toolkits for educational and information materials4. pilot BioBeo education programme reaching 35 schools, 1,000 university students, 1,800 parents/guardians and 100 teachers across Ireland, Belgium,

Netherlands, and Germany 5. demonstrate a measured increase in engagement of young people and their intention to pursue education and careers in life science, technology, and bioeconomy 6. enhance governance of bioeconomy related processes within society by engaging European citizens from young to old in active policy making 7. coordinate communication and dissemination to optimise the reach and visibility to students, teachers, policy makers and parents. BioBeo will contribute to the transition to a sustainable EU circular bioeconomy by enhancing society-wide awareness and inspiring Europe's youth to pursue STEM related careers.

Link to research group or supervisor webpage:

<https://people.ucd.ie/tom.curran>

Location of lab:

UCD Belfield, Dublin

Working hours:

Number of Weeks offered:

10-weeks

Hours per week:

TBC

Earliest Start Date possible:

Tuesday, 30 May

Latest End Date possible:

Friday, 04 August