

## Three-day virtual teachers' summer school on the bioeconomy

- Day 1 - Tuesday 25 May 2021, 14:00-17:30 CET
- Day 2 - Tuesday 1 June 2021, 14:00-17:30 CET
- Day 3 - Tuesday 8 June 2021, 14:00-17:30 CET



A 3-day summer school for teachers interested in developing curricula and educational material on the bioeconomy, as part of the BE-Rural Project (<https://be-rural.eu/>). The summer school is primarily targeted at teachers in the five innovation regions (Vidzeme and Kurzeme in Latvia; Szczecin and Vistula Lagoons in Poland; Covasna in Romania; Stara Zagora in Bulgaria; and Strumica in North Macedonia) but other attendees are welcome.

The summer school is jointly-run by Dr Elsa João (University of Strathclyde in Glasgow, Scotland) and Rachel Moir (Skills Programme Manager, IBioIC), The University of Strathclyde has a long history on the teaching of sustainability (since 1992) and is involved in teaching circular economy and bioeconomy since 2016. IBioIC connects industry, academia and government with the aim to accelerate new biotechnology processes and products. Part of their activities involve innovative initiatives for the development of skills in the bio-based sector.

## Programme

**Day 1** - Tuesday 25 May, 14:00-17:30 CET

### Introduction to the bioeconomy and overview of the bioeconomy educational resources developed by BE-Rural

Dr Elsa João (Department of Civil and Environmental Engineering, University of Strathclyde), with the support of Neli Georgieva (European Policies Research Centre)

14:00 – 14:15 – Welcome – plus about Dr Elsa João and the University of Strathclyde. About the BE-Rural Project. Introduction to the Summer School.

14:15 – 15:10 – Key principles of bioeconomy – plus Q&A

15:10 – 15:30 – About bioproducts and small group discussion

15:30 – 15:45 – *Break*

15:45 – 16:15 – Key principles of sustainability and the UN SDGs

16:15 – 16:45 – Overview of educational resources by BE-Rural. Overview bioeconomy events in each region

16:45 – 17:15 – Discussion on how can bioeconomy learning be integrated in school teaching. Presentations by participants.

17:15 – 17:30 – Fill feedback survey about Day 1 of the summer school. Q&A, summary day 1, and link to day 2

## **Day 2** - Tuesday 1 June, 14:00-17:30 CET

### **Bioeconomy of different sectors (e.g. fisheries, agriculture) and how best to integrate bioeconomy teaching in schools in Bulgaria, Latvia, North Macedonia, Poland and Romania.**

Dr Elsa João (Department of Civil and Environmental Engineering, University of Strathclyde), with the support of Stefan Kah (European Policies Research Centre)

- 14:00 – 14:15 – Welcome back from Dr Elsa João and the University of Strathclyde. Introduction to Day 2 of the Summer School
- 14:15 – 14:40 – Summary of what was covered in Day 1 of the Summer School. More about the BE-Rural Project and the different working packages
- 14:40 – 15:30 – Key principles of circular economy – plus Q&A
- 15:30 – 15:45 – *Break*
- 15:45 – 16:15 – Connecting student learning with industry projects, lessons from Strathclyde
- 16:15 – 16:45 – Novel ways to maximise potential of bioeconomy of different sectors (agri-food, Fisheries & aquaculture, forestry, herbs and essential oils for cosmetics and pharmaceutical industries) – plus Q&A
- 16:45 – 17:15 – Workshop on teaching bioeconomy in each of the five innovation regions, grouped by country and language. Presentations by participants.
- 17:15 – 17:30 – Short poll about Day 2. Q&A, summary day 2, and link to day 3

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## **Day 3** - Tuesday 8 June, 14:00-17:30 CET

### **Developing the industrial biotechnologists of the future: the innovative work of IBioIC (Industrial Biotechnology Innovation Centre) with Scottish schools.**

Chair: Rachel Moir (Skills Programme Manager, IBioIC), with the support of Dr Elsa João (Department of Civil and Environmental Engineering, University of Strathclyde)

- 14:00 – 14:20 – Introduction to Day 3. Introduction to IBioIC – who we are, what we do (Rachel Moir, Skills Programme Manager, IBioIC) – plus Q&A.
- 14:20 – 14:50 – Scottish Bioeconomy Strategy and its context in a school setting (Debbie McCreath, Public Affairs Manager, IBioIC) – plus Q&A with speaker.
- 14:50 – 15:25 – Engagement strategies with STEM (Graeme Rough, Head of STEM programmes, Scottish Schools Education Research Centre) – plus Q&A.
- 15.25 – 15.30 – Pre-break Q&A and discussion
- 15:30 – 15:45 – *Break*
- 15:45 – 16:20 – Leaders in Science Programme (Dr Jo Sadler, Leaders in Science Founder & Chancellor's Fellow, University of Edinburgh) – plus Q&A
- 16:20 – 16:40 – Inclusive STEM, Social Mobility Foundation and other initiatives (Rachel Moir, Skills Programme Manager, IBioIC) – plus Q&A
- 16.40 – 17.10 – Concluding slides about the 3-days summer school, final zoom polls, and participants to fill feedback survey about summer school overall (Elsa João)
- 17:10 – 17:25 – Final Q&A considering content of the 3-days of the summer school
- 17:25 – 17:30 – Close (Rachel Moir, IBioIC and Dr Elsa João, University of Strathclyde)