

## 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 Dr Kirsty Robb (IBioIC - Industrial Biotechnology Innovation Centre, Scotland). 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 - Introduction the Summer School overall and Day 1 in detail. Introduction to the BE-Rural Project and the University of Strathclyde

14:15 – 14:40 – Key principles of bioeconomy, bio-based sector, circular economy and sustainability.

14:40 – 15:10 - Overview of the bioeconomy educational resources developed by BE-Rural

15:10 – 15:30 - Small group discussion and Q&A

15:30 – 15:45 – Break

15:45 – 16:15 - Workshop using some of the bioeconomy games developed by BE-Rural

16:15 – 16:45 - Discussion on use of bioeconomy educational resources in different teaching contexts

16:45 – 17:15 - Small group discussion and Q&A

17:15 – 17:25 - Fill feedback survey about Day 1 of the summer school

17:25 – 17:30 - Close

**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 - Introduction to Day 2 of the Summer School. Summary of what was covered in Day 1 of the Summer School.

14:15 – 14:40 - Bioeconomy of different sectors (e.g. fisheries, agriculture, forestry, cosmetics)

14:40 – 15:10 - Workshop discussing extracurricular school activities related to bioeconomy

15:10 – 15:30 - Small group discussion and Q&A

15:30 – 15:45 – Break

15:45 – 16:15 - Workshop on teaching bioeconomy in each of the five innovation regions

16:15 – 16:45 - Presentations by participants

16:45 – 17:15 - Small group discussion and Q&A

17:15 – 17:25 - Fill feedback survey about Day 2 of the summer school

17:25 – 17:30 - Close

---

**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: Dr Kirsty Robb (RapidBio Senior Scientist, IBioIC)

14:00 – 14:15 - Introduction to Day 3 of the Summer School. Introduction to IBioIC – who we are, what we do (Dr Kirsty Robb, RapidBio Senior Scientist, IBioIC)

14:15 – 14:40 - Scottish Bioeconomy Strategy and its context in a school setting (Debbie McCreath, Public Affairs Manager, IBioIC)

14:40 – 15:10 - Engagement strategies with STEM (science, technology, engineering and mathematics) (Graeme Rough, Head of STEM programmes, Scottish Schools Education Research Centre)

15:10 – 15:30 - Small group discussion and Q&A

15:30 – 15:45 – Break

15:45 – 16:15 - Leaders in Science Programme (Dr Jo Sadler, Leaders in Science Founder & Chancellor's Fellow, University of Edinburgh)

16:15 – 16:45 - Social Mobility Foundation and STEM (Speaker TBC)

16:45 – 17:15 - Small group discussion and Q&A

17:15 – 17:25 - Fill feedback survey about Day 3 of the summer school

17:25 – 17:30 - Close (Dr Kirsty Robb, RapidBio Senior Scientist, IBioIC)