



ICA Education Workshops 2023

Enhancing Student and Industry Engagement Workshop

ICA-CoP Bio-Edu Workshop 2023

Engaging with industry to ensure that graduates and professionals are well prepared for employment in the Bioeconomy.

To be held at Warsaw University of Life Sciences from 26 to 28 April 2023

A Workshop focus

Educators and employers are experiencing a gap between the competences of graduates and what is needed by the employer in the bioeconomy. Although it is not possible to prepare students for specific jobs, it should be possible to prepare students more effectively for their future careers in the bioeconomy

The key objectives of the workshop will be to:

- recognise and examine the gap between expectations of graduates and industry on the working ethos of the bioeconomy industries.
- identify the specific generic competences required by graduates for careers in the bioeconomy
- recognise the need to embed in our graduates the mindset for the bioeconomy – referring back to the Colloquium in 2022
- exchange good practices in realising cooperation between representatives of employers and educational institutions to improve the engagement of industry employees in curricula at VET, Bachelor and Master education levels.
- examine how to develop life long learning cooperation between employers and educational institutions in support of up-skilling industry employees for the bioeconomy

B Expected Outcome

It is expected that participants will:

- address how to realise an optimal engagement of employer partners in the educational programmes to prepare graduates and professionals for their (future) employment.

C Target Audience

Degree programme coordinators, lecturers, members of committees responsible for the (strategic) development of curricula. National education advisors and employers, who have a special interest in cooperating with education institutions, are also invited to contribute to the discussion.

D Workshop Format

On the Wednesday afternoon there will be a joint plenary session focusing on all three workshop themes. The Thursday session has three parallel sessions, one for each Workshop Theme. The Friday session will start with the three parallel sessions and then come together for a final plenary session.

Each Session of the Workshop theme will be addressed by keynote speakers followed by round table breakout groups to discuss the issues raised, with a concluding report from the breakout groups of the issues raised in the final plenary session on Friday morning.

E Outline Programme

Wednesday 26 April

13.00 Registration and Lunch

Session 1 –Framing the challenge of Enhancing Student and Industry Engagement – Joint Plenary Session

14.00 **Welcome Rector/Dean**

14.10 Introduction of the ambitions for the Workshop

1. **Julian Park**, Chair ICA-Edu
2. **Lisa Ploum**, Chair ICA-Edu SIG for Sustainable Entrepreneurship Education
3. **Han van Osch**, Chair of ICA-CoP Bio-Edu

14.30 Keynotes Framing the challenge of Enhancing Student and Industry Engagement

1. **ICA-Edu Keynote:** Janna Pietikäinen, Vice-Dean for Academic Affairs, Faculty of Agriculture, University of Helsinki, Helsinki, FI
2. **ICA-Edu SIG Keynote:** How do student challenges enhance entrepreneurial learning in life science universities?
Marta Eggers, Project coordinator Student Challenges, Wageningen University and Research, NL
3. **ICA-CoP Bio-Edu Keynote:** Industry's challenge to life science universities in preparing their graduates to have the skills to be effective employees and universities in supporting the demand for up-skilling of already established employees.
Nelo Emerencia, BioBased Industries Consortium (BIC), Brussels, BE

15.30 Coffee

16.00 **Round table discussions**

17.00 **Closure**

17.15 **ICA-CoP Bio-Edu General Assembly**

19.00 **Welcome Reception and Walking Dinner**

(note delegates may wish to go to their hotels to register between the end of the Session and the Welcome Reception, this will affect the time of the Reception.)

Thursday 27 April

Session 2 Engaging with industry to ensure that our graduates do not have a skills gap that limits their fitness for employment in the Bioeconomy?

9.00 What are the skills that need to be addressed in addition to the core generic/soft skills (e.g. those of problem solving, critical thinking, communication, team working, ethics, leadership)?

- **Keynote: Developing the student bioeconomy mindset – Report and follow up from the ICA-CoP Colloquium 2022**, Ingar Janzik – Forschungszentrum Jülich & Bioeconomy Science Center, DE
- **Keynote: Developing the student entrepreneurship mindset through entrepreneurial engagement within the curriculum and with extra-curriculum activities.** Michael Ambros, BOKU Activities Supporting Entrepreneurship (BOKU:BASE), University of Natural Resources and Life Sciences, Vienna (BOKU), Vienna, AT
- **Keynote: Addressing the methodologies used by industry in assessing the success of becoming sustainable**
One methodology is for assessing environmental, social and economic impacts associated with all the stages of the life cycle of a commercial product, process, or service is Life cycle sustainability assessment (LCSA)
What knowledge does industry expect? How should students be prepared for it?
What can be embedded into the curriculum and how? Keynote TBC
- **Keynote: Developing the capability to work in interdisciplinary and multi-cultural teams.** Keynote TBC

11.00 Coffee

11.30 Keynote: Experience of new entrants to the Bioeconomy employment sector - did I have the right skills set? Katrin Jõgi, EU Bioeconomy Ambassador & OÜ Fibenol, Tallinn, EE
TBC

12.00 Round Table discussions and report back. What kind of mindset is required when starting in a new career in the bioeconomy sector

13.00 Lunch

14.00 How do universities engage proactively with industry in curricular and in extra-curricular activities

Call for short contributions (10 minutes) for engagement between university and industry to support students' skills for industry and other employers

- Internships
- interdisciplinary research project triggered by industry problems.
- Competitions
- Hackathon to take advantage of different technologies and tools to build creative solutions to a problem.
- Battles
- Application centres (labs where industry and knowledge institutes cooperate on realising demo's and pilots)
- Other options

15.30 Coffee

16.00 Round table discussions

17.00 Closure

17.15 ICA-CoP Bio-Edu General Assembly

20.00 Workshop Dinner Warsaw City centre,

Friday 28 April

Session 3 Universities of life sciences in support of up-skilling industry employees for the Bioeconomy through life long learning and the award of micro-credentials

9.00 Introduction

9.10 European approach to micro-credentials. Keynote TBC

9.40 Experience from Avans University of Applied Sciences in providing up-skilling for industry employees, Han van Osch –Avans University of Applied Science, Breda, NL

10.10 Roundtable discussion, and Report back

Session 4 Plenary - Enhancing Student and Industry Engagement

11..00 Coffee

11.20 Reports by the Chairs of ICA-Edu, ICA-SIG and ICA-CoP Bio-Edu of the outcomes of the Workshop discussions

11.50 Plenary Round Table Discussion

13.00 Closure and Lunch

F ERASMUS+ Staff Training Mobility Support

There is an opportunity for participants at these ICA Workshops to apply at their home university for the Erasmus+ Staff Training Mobility funding.

Erasmus+ staff training mobility funding supports higher education teaching and administrative staff to take part in professional development activities abroad – these activities may consist of teaching as well as training periods (such as job shadowing, observation periods, training courses). In this respect the ICA Workshops are considered to be training courses. See more details here: <https://www.ica-europe.info/erasmus-staff-training-mobility-funding-support>

G Registration and Logistic details

- **Registration see details here** <https://www.ica-europe.info/registration4> The deadline for registration is 14 April
- **Book your hotel here** <https://www.ica-europe.info/book-your-hotel-here>
- **See how to reach the campus of Warsaw University of Life Sciences** <https://www.ica-europe.info/how-to-reach-the-sggw-campus>

H Workshop organising committee

- **Han van Osch**, (Chair) Avans University of Applied Sciences, The Netherlands & Dutch Biobased Knowledge Network
- **George Sakellaris**, (Vice Chair) Czech Academy of Sciences, Prague, Czech Republic & [BioEast](#)
- **Ingar Janzik**, Forschungszentrum Jülich GmbH and Bioeconomy Science Center, Germany
- **Pawan Kumar Mishra**, Mendel University in Brno, Czech Republic & UniNet
- **Mona-Anitta Riihimäki**, Häme University of Applied Sciences, Finland
- **Constantinos Vorgias**, University of Athens, Greece

I Questions?

Contact Simon Heath icasecretariat@ica-europe.org