Climate-KIC PhD Summer School 2015

Green city Frankfurt; shaping transition pathways for a future economy

Frankfurt/Main, Germany 24 August – 4 September 2015

Register now before 15 June 2015 and take the chance to learn all about Making transitions happen!

Frankfurt - home of the European Central Bank and symbol for the European financial policy - is a growing city trying to balance the challenge of economic prosperity and ecological sustainability. On the one hand, Frankfurt intends to continue its successful positioning as an economic centre but faces challenges as the increasing international competition, digitalization, the demographic change as well as its limited space. Frankfurt Economic Development ("Wirtschaftsfoerderung") has therefore established the Masterplan Industry, which combines a variety of strategies to strengthen the position of the industry and to ensure sustainable future economy. On the other hand, the city of Frankfurt places high importance to the goal of ecological sustainability and has decided to transform its energy supply to 100% renewable energy sources until the year 2050.

Summer school programme

As a practical assignment, the participants will develop innovative concepts for the integration of economic prosperity and ecological sustainability in Frankfurt. This includes working on one or more of the following topics regarding Green Economy:

- How can the European goal of Green Growth be transferred to a regional level?
- What are Green Jobs and how can they be fostered through innovation?
- What does the Green Transition mean for specific industrial sectors (finance, logistics, manufacturing industry, IT)?
- How can Frankfurt realise its aim to become a Green City in the economic and industrial realm?
- How can a city foster Green Prosperity? Which measures or incentives can be taken by city representatives to strengthen the involvement of the industry in the transition process?
- Which barriers need to be overcome in transition processes in a city?
- Which new coalitions among stakeholders are necessary to make transitions happen and how can these coalitions be implemented?

Climate-KIC is supported by the
EIT, a body of the European Union

Learning Objectives

The **Purpose** of the Climate-KIC PhD Summer School in general is:

- To equip participants with the knowledge of transformative, socio-technical innovation using a systems approach.
- To deliver knowledge on the concept of Green Economy and to illustrate the practical implications of this political framework on the city level for different industries (finance, logistics, manufacturing industry, IT).
- To exchange ideas between students and experts and to develop new project ideas for low carbon innovation within the key economic sectors of the city
- To provide practice oriented tools of transition management that students could use to enrich their individual projects.
- To enable PhD students to link their individual research projects to low carbon innovation activities.

Opportunities

This summer school offers you:

- To combine theory with practice in the field of the Green economy and transition management;
- To learn how a major city is seeking to transform its economy onto a low-carbon, sustainable basis;
- To develop a concise proposal how the city should act on the Green Economy rationale through measures such as fostering Green Jobs or creating incentives for sustainable finance;
- To meet, discuss and question key business leaders and policy-makers;
- To get in touch with people from all over the world and to work in interdisciplinary teams.

Learning and Training Modules

The Summer School will include theoretical elements, practice-oriented parts and project work. It will cover the following topics, each in the two dimensions, basic and applied theory as well as practical examples:

- Green Economy
- Transitions Management
- (cross-sectorial) Innovation

A: Lectures and Theoretical Elements

Background information will be provided by experts, for example on the following topics:

- Introduction into systems thinking and transition management
- Multi-level perspective and actor analysis
- Visioning and back-casting
- The sustainability challenge in an industrial realm
- Cross-sectorial innovation

Among the high-level speakers will be:

- Prof. Dr. Frank Geels; University of Manchester
- Dr. Bernd Rentmeister; Frankfurt Economic Development GmbH
- Dr. Martin Vollmer; Clariant International Ltd (tbc)
- Dr. Joachim Kreysing, Infraserv Verwaltungs GmbH (tbc)
- Prof. Dr. Fred Stewart; University of Westminster
- Susan Dreyer; Carbon Disclosure Project (tbc)
- Karsten Löffler; Allianz Climate Solutions GmbH (tbc)
- PD Dr. Heike Zimmermann-Timm; Goethe-University Frankfurt am Main
- Dr. Christian Gabe; FiZ Frankfurter Innovationszentrum Biotechnologie GmbH (tbc)
- Rüdiger Senft; Commerzbank AG (tbc)

B: Practical Elements

Practical application of concepts will be showcased in discussions with practitioners (administration, business) and excursions/site visits. The following practical elements will be provided:

- City excursions, highlighting transition challenges in the metropolitan area Frankfurt-Rhein-Main
- Excursion to the Industriepark Hoechst, a leading European industrial park
- Discussions with city authority and business experts - highlighting management challenges related to the Green Transition (business potentials and risks)
- Background discussions with leading experts from different fields:
    - finance industry (e.g. Commerzbank, European Central Bank)
    - manufacturing industry (e.g. Infraserv Hoechst; Clariant International Ltd, Siemens AG)
    - logistics (e.g. Deutsche Bahn; Lufthansa; FRAPort)
    - IT (Digital Hub)
    - consultancy (e.g. PwC Strategy&)

C: Assignment/Project Work

- As a **Summer School Assignment**, participants will develop (in groups) concepts for the integration of economic prosperity and ecological in Frankfurt. The outcome of the assignment will be presented and discussed in a workshop on the final day of the Summer School. As part of a small competition, the best outcomes will be rewarded. The Summer School will be accompanied by **coaches** who shall provide guidance for the students in terms of the assignment and learning outcomes of the school. A framework for the development of the project plan will be provided by lecturers/ coaches.

Programme Outline

Week One (24 – 30 August)
Main Goals:

- Understanding the challenge
- Getting to know important theoretical concepts
- Identifying the group work topics

Sunday 23 August Day 0	Arrival, official welcome. Expectation setting session and a (voluntary) joint dinner.
Monday 24 August Day 1	- Transition management (lectures). Setting the scene: The Green Economy rationale – theory and implications (lectures). - Frankfurt city tour, focussing on transition experiments towards a low carbon society.
Tuesday 25 August Day 2	- Accelerating the Green Transition on a local level (lecture and round table): 1. Introduction of the challenge 2. Structure and challenge of the city of Frankfurt. - Outline of the group assignments; expected outputs and processes.
Wednesday 26 August Day 3	- Academic Coaching – linking the summer school theme to your individual PhD research projects: 1. Individual scientific career paths 2. Positioning the individual research projects in a transition context - Transition Management: Visioning and back-casting (lecture).
Thursday 27 August Day 4	- Cross-industrial innovation (lectures). - Green jobs (lectures). - Practical example of current projects in the City of Frankfurt. - Formation of working groups for the group assignment.
Friday 28 August Day 5	- Industries of Frankfurt: Finance industry (lectures and case study) - Meeting with the Climate-KIC 'Making Transitions Happen Platform' Linking the Summer school to the overall Climate-KIC strategy goals. - Lectures and joint dinner
Saturday 29 August Day 6	- Time for group work on transition assignment - Leisure time, explore the city
Sunday 30 August Day 7	- Excursion: Day-Trip Rheingau (voluntary)

Programme Outline

Week Two (31 August – 04 September)
Main Goals:

- Working in groups on the development of concepts for the city of Frankfurt
- Getting to know the main industrial areas of Frankfurt and their transition challenges
- Preparing and presenting the group works on transition assignments

Monday 31 August	
Day 8	- Industries of Frankfurt II: manufacturing industry and case study
Tuesday 1 September	
Day 9	- Industries of Frankfurt III: logistics and case study - Time for group work on transition assignments
Wednesday 2 September	
Day 10	- Industries of Frankfurt IV: IT industry and case study - World cafe on project ideas
Thursday 3 September	
Day 11	- Industrial perspectives from consultancy - Time for group work on transition assignments - Test run for the presentations in front of the jury
Friday 4 September	
Day 12	- Presentation of group works in front of a journey consisting of academic experts on transition management, practitioners and city representatives. - Announcement of jury decision. - Debriefing session
Saturday 5 September	
Day 13	- Departure

Who can participate?

The participation in a PhD thematic summer school is part of the Climate-KIC PhD programme. All Climate-KIC PhD students should take part in a thematic summer school in their second or third year.

Furthermore we are happy to welcome students pursuing their PhD outside of Climate-KIC and who are interested in climate change topics. Post-graduates with outstanding skills and motivation to participate are also invited to apply.

The summer school will be held in English, in order to participate, students should have sufficient language skills. Therefore, short interviews might be conducted with the applicants to test their English skills and their motivation.

How to apply?

All details can be found here: http://www.climate-kic.org/programmes/phd-summer-schools/

Applications for this summer school are now being received until the **application deadline of 15 June 2015**. Please provide a copy of your passport as an attachment to your application.

Any applications submitted after the deadline will be marked late and will be considered only after the review of applications received on or before 15 June 2015.

Costs

As the PhD Summer School is an integral part of Climate-KIC's PhD programme, costs are fully covered for Climate-KIC labelled students.

- 500,- EUR for PhDs from partner universities and EU citizens
- 2.000,- EUR for non-EU passport holders

The costs of the programme include accommodation (in double rooms), breakfast and lunch, approx. five dinners per week, as well as local transportation. Participants need to cover the travel costs to/from Frankfurt themselves.

After the confirmation of acceptance, invoices will be sent out to participants. Course fees need to be paid three weeks before the start of the programme.

Organised by

This Summer School is organized by Climate-KIC and its academic cooperation partners Provadis School of International Technology and Management AG, Goethe University Frankfurt and Technical University Darmstadt.

Contact us

Please check the website www.ckic-phd-ffm.net for more comprehensive information on this summer school

In case of any questions concerning this PhD Summer school, feel free to contact Julia Woth via julia.woth@climate-kic.org or +49 69 – 305 43979

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Climate-KIC

Climate-KIC is Europe's largest public-private innovation partnership, working together to address the challenge of climate change. The KIC is one of three Knowledge and Innovation Communities (KICs) created in 2010 by the European Institute of Innovation and Technology (EIT). The EIT is an EU body whose mission is to create sustainable growth. Climate-KIC supports this mission by addressing climate change mitigation and adaptation. The KIC integrates education, entrepreneurship and innovation resulting in connected, creative transformation of knowledge and ideas into economically viable products or services that help to mitigate climate change.