

## PhD and PDEng Course

### *Innovation Camp:*

### *Bootcamp for transformative approaches to energy, mobility and smart cities.*

January 16 – January 27, 2017

Eindhoven University of Technology, The Netherlands.

#### **Course objective and topics covered**

Cities around the world face numerous challenges. In particular, urban energy and mobility systems are under unprecedented pressure due to the increasing resource depletion, and climate change. Their transformation requires not only innovative technologies, but also a radical change of the entire system in which these technologies are embedded including regulations, culture, practices and routines. However, a key question is how to transform the current unsustainable energy and mobility practices in the city of today and create smart cities of tomorrow?

Solving the question requires specific competencies that are usually not part of the classical engineering education. After completion of this course you will obtain the necessary tools and skills for making your own sustainable energy efforts and projects more effectively contribute to the systemic transformation of the urban energy and mobility system.

During a series of creative and strongly interactive sessions you will acquire three major system innovation essentials:

1. Systemic perspective: it is a critical skill that helps acknowledge both technological and societal changes in the way societies consume and produce energy;
2. Envisioning: it is a competence that helps develop coherent future guidance that connects short-term actions with long-term visions;
3. Innovative collaboration and partnership: these are enablers of smart combinations of skills, expertise and resources that are necessary for a systemic change.

These will be further exemplified using case studies and scientific readings from the field. Participants are welcome to work with their own projects. A number of guests from academia and practice will help them understand and approach the complexity of the challenges. Peer feedback will be provided by colleague participants with different technical background.

## Tuition fee

The costs for the two weeks course are €1500 including teaching materials, excursions, and a welcome and closure dinner. The tuition fee for students of KIC InnoEnergy PhD School, Smart Buildings and Cities PDEng program, and SELECT+ PhD School will be covered by their respective programs.

## Who can apply?

The course is open for PhD and PDEng students with a technical/engineering background (e.g. mechanical engineering, chemical engineering, electrical engineering, building and construction engineering, computer science, physics, etc) from EuroTech Universities in Europe, 4TU's from the Netherlands, KIC InnoEnergy PhD School, Smart Buildings and Cities PDEng program, and SELECT+ PhD School. Topic affiliation with mobility or energy, or smart cities is particularly encouraged. We can host a maximum of 30 students.

## Interested in joining? Apply now!

Send an email with your CV and short motivation as well as a short description of your project (1 A4) to [innovationcamp@tue.nl](mailto:innovationcamp@tue.nl) before October 28, 2016.