

Call for Applications

The Friedrich- and Elisabeth BOYSEN-Foundation and the Technische Universität Dresden

invite graduates to apply for a stipend to join the

BOYSEN-TU DRESDEN Graduate College
Sustainable Energy Systems – Interdependence between Technical Designs and Social Acceptance

to complete a dissertation in

Environmental Management and Accounting
on

Sustainability Assessment of Future Energy Technology Options

under the lead supervision of Prof. Dr. Edeltraud Günther

Doctoral students admitted to the Graduate College will receive a stipend of 1,800 Euro/month for a period of 3 years. An extension to 3.5 years is possible. Each student will have at least two advisors from engineering and the social sciences and will be paired with another doctoral student from another discipline. The program includes regular seminars on research-related topics and on soft skills as well as participation in workshops and conferences.

Applicants must have a better than average university degree in the field of their research, fulfill the requirements of the respective regulations for dissertations in the faculty in which they seek their doctoral degree, and show a strong motivation for interdisciplinary research and teamwork. Their application should contain a CV, copies of documents of their previous studies, and a 3-5 page proposal for their research in the Graduate College. The admittance will be decided by the Board of the Graduate College.

Further information at: Prof. Dr. Edeltraud Günther; E-mail: bu@mailbox.tu-dresden.de / Phone: ++49 (0) 351 463 34313

The deadline for applications is January 15, 2012. Send applications with the usual documents to:

Boysen-TUD-Graduate College
att.: TU Dresden, Fakultät Wirtschaftswissenschaften, Lehrstuhl für BWL, insb. Betriebliche Umweltökonomie, Frau Prof. Dr. Edeltraud Günther, 01062 Dresden.



Further information

The BOYSEN-TUD graduate program covers various projects on “Sustainable Energy Systems – Interdependence between Technical Designs and Social Acceptance”, including topics in engineering as well as social and human sciences. Young scholars will cooperate under the joint supervision of advisors from different academic cultures so that the technological possibilities and their societal acceptance can be developed simultaneously.

This call for applications aims at assessing the sustainability of future energy system options. It relates to Business Administration and technological disciplines. The energy system options that are being developed in the engineering projects of the graduate program will only be viable if they fulfill the requirements of sustainability. The purpose of this dissertation is to analyze the energy system options that are being developed with respect to their sustainability: the main focus is on assessing the sustainability in terms of long-term economic and ecological sustainability. It will deal with the uncertainty of long-term economic consequences and trade-offs between the economic and ecological sustainability will be identified. The starting point for the assessment of the ecological sustainability of the energy system options will be the standardized life cycle assessment. As with the economic assessment, the challenges of uncertainty will be dealt with respect to ecological sustainability. The aim is here to identify and if necessary respond to hot spots already during the development process by accompanying the engineering projects of the graduate program. In addition, possible barriers to the successful implementation of the analyzed and chosen energy system options are considered. By taking into account the economic added value, the ecological compatibility as well as the barriers to implementation allows a long-term success of the considered energy system options.

All parts of the dissertation require an intense cooperation with the engineering projects of the graduate program: they provide the relevant data for the data inventory and require the results for interpretation. In the context of the intended discussion of technology acceptance, this close interdisciplinary is a crucial prerequisite to step into a well-informed dialogue. The analysis of the barriers will occur in close cooperation with the communication science dissertation of the graduate program.