Identifying strategies and business models of aircraft and fuel manufacturers

Project Description

The decarbonization of aviation requires the development of new types of aircraft engines. Besides the engineering challenges, it is unclear how the transition period for the airline fleets would look like after a successful development. Understanding the role of new technologies requires a robust study that analyzes the the behavior of the future air transport system. Project STENOS will provide a high-level understanding of the air transport system with the help of simulation and policy analysis. The adoption of cleaner technologies that have the potential to make aviation sustainable and emission-free depends to a larger extent on the strategies major stakeholder firms choose to gain market share. As part of STENOS, your task is to identify different scenarios for business models that are required from aircraft and fuel manufacturers to reach the emissions reduction goals, which can later be used in the simulation environment.

Requirements

- Completed scientific higher education (master, university diploma) in business economic, technology-oriented management, industrial engineerings, or a similar field of study
- Excellent analytical, organizational, and communication skills
- High level of proficiency in English (written and spoken)
- First knowledge and experience in the area of simulation (preferably System Dynamics or Agent-based simulation) would be desirable
- High motivation and pronounced interest in scientific work

Contact information

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The entry date is as soon as possible, and the duration of employment is limited to 6 months. The position is part-time with 50% of the regular weekly working time (currently 19,9h). Ongoing applications are possible until all positions are filled.

The payment is made according to task assignment and fulfillment of personal requirements to salary group EG 13 TV-L. International applicants may have to successfully complete a visa process before hiring can take place. Candidates with handicaps will be preferred if equally qualified. Please enclose a proof. The position is part of the SE²A International Female Programme, so only applications by female graduates of non-German universities are possible.

All documents should be in PDF format, preferably in a single file. Personal data and documents relating to the application process will be stored electronically. Please note that application costs cannot be refunded.