



## SUMAFly II – Sustainability Modeling and Analysis of Euture aircraft systems II (AIP)

### Project Description

The project SUMAFly II aims for the sustainability modeling and analysis of future aircraft systems. To this end, life cycle engineering methodologies should be developed that enable the analysis of environmental, economic, and social sustainability and support decision-making in the early stages of aircraft development. The focus will be on analyzing and assessing novel aircraft concepts, including aircraft types and powertrain concepts, along the entire life cycle (cradle-to-grave) and considering all sustainability dimensions. In this context, interdisciplinary research will be conducted with scientists from different disciplines to contribute to the sustainable development of the aviation sector. Overall, the project offers interesting and challenging tasks in fundamental and application-oriented research.

The position is located at the Institute of Automotive Management and Industrial Production (AIP), Chair of Production and Logistics (<https://www.tu-braunschweig.de/aip/pl>) at the Technische Universität Braunschweig.

### Requirements

- Completed scientific higher education (master, university diploma) in industrial engineering, technology-oriented management, business economics, 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 with programming languages (e.g., Python) and optimization software (e.g., AIMMS) would be desirable
- High motivation and pronounced interest in scientific work

### Contact information

Applications should be sent by e-mail to Prof. Dr. Thomas S. Spengler ([t.spengler@tu-braunschweig.de](mailto:t.spengler@tu-braunschweig.de)) and Alexander Barke ([a.barke@tu-braunschweig.de](mailto:a.barke@tu-braunschweig.de)). The following documents are required:

- Motivation letter
- Curriculum vitae including complete address, phone number, e-mail address, educational background, language skills, and work experience

- Copies of bachelor's and master's diplomas and transcript of grades in original language and in English or German translation

For more information, please contact Alexander Barke by e-mail ([a.barke@tu-braunschweig.de](mailto:a.barke@tu-braunschweig.de)).

### **Further information**

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 the 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 SE<sup>2</sup>A 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.