



The GFaI (Society for the Advancement of Applied Computer Science) is a non-profit research institution in the field of applied computer science located in the Technology Park Berlin-Adlershof. As a reliable research partner, we have been developing innovative solutions for versatile industries and application areas for 30 years.

For the support of a research project, energy engineering modeling, and software development, the research group **Graph Based Engineering Systems** is looking for a

Student (m/f/d) of Engineering Sciences, Technical Mathematics or Similar.

For 20 years, GFaI's Graph Based Engineering Systems research group has been developing software and methods for modeling and optimizing energy systems. The research results have been continuously integrated into commercial software and successfully applied in practice. The TOP-Energy® software has now established as a standard tool for energy system analysis.

Your Tasks:

- Support of mathematical energy system modeling with new optimization methods
- and, depending on your expertise, support in the software development process, e.g., with
 - the modeling of energy systems (mapping of physical and technical relationships) with a focus on further optimization methods (robust optimization, multi-criteria optimization),
 - the creation of case studies and tutorials as well as evaluations and the further
 - participation in the software development process (including bug fixing, testing, documentation).

Your Profile:

- You are pursuing a degree in engineering sciences, energy technology, technical mathematics, or a related field. Experience in modeling, simulation, or optimization is desirable.

You also have

- interest and fun in software development processes and model building,
- curiosity and passion for analyzing technical and mathematical relationships, and
- a sound knowledge of energy technology or the willingness to learn its fundamentals.

We Offer You:

- insight into interesting fields of research and an interdisciplinary collaboration in the field of R&D in a team of specialists from mathematics, physics, computer science, software development, cultural studies, and economics;
- the opportunity to creatively transfer the results of your work from research projects into practical application;
- a modern and social working environment and the opportunity to participate in sports and other company events.
- If interested, a topic can be worked on as part of a thesis.

Interested?

Then we look forward to receiving your application documents, stating the application code GRAPH-S12 and the earliest possible starting date, by e-mail to bewerbung@gfai.de