

The Leibniz Institute for Agricultural Engineering and Bioeconomy is a pioneer and a driver of bioeconomy research. Our work is aimed at creating the scientific foundation to transform agricultural, food, industrial and energy systems into a comprehensive bio-based circular economy. Objectives are to develop and to integrate techniques, models, processes and management strategies, effectively converging technologies to intelligently crosslink highly diverse bioeconomic production systems and to control them in a knowledge-based, adaptive and largely automated manner. We conduct research in dialogue with society - knowledge-motivated and application-inspired

To strengthen the **Department Data Science in Bioeconomy**, we are looking for a

## **Two Student Research Assistants (40-80h per month) (m/f/d) Focus on Artificial Intelligence**

We are looking for motivated and skilled students to join our research team as a Student Research Assistant in the field of Applied Artificial Intelligence in Bioeconomy. The position involves working with our team of researchers to develop and implement AI solutions to address some of the most pressing societal problems of our time. We deal with global challenges such as food security, protection of biodiversity, disease detection, as well as environmental and climate protection. You will work directly with experts from various research areas of the ATB and with top researchers in the field of AI and explainable AI (XAI) from the research group UMI (Understandable Machine Intelligence) lab.

### **Your responsibilities**

- Collaborate with researchers to design and develop AI algorithms and models
- Write, test, and maintain code for AI solutions that address real-world challenges
- Support the experimental design, setup and ensure smooth execution of AI experiments
- Assist with data acquisition, collection, cleaning, and analysis
- Communicate and transfer research findings to team members and other stakeholders
- Attend team meetings and contribute to discussions
- Create project reports

### **Your qualifications**

- You are currently enrolled as a student in computer science, data science, physics, engineering or mathematics (or similar)
- Profound knowledge in the field of machine learning, in particular deep neural networks
- Practical experience in the development and application of machine learning algorithms
- Excellent programming skills (especially in Python), experience with ML and linear algebra libraries (PyTorch, Tensorflow, NumPy, sklearn, etc.)
- Basic understanding of sustainable bioeconomic systems (e.g., food process, agricultural production) is an advantage.
- Excellent written and spoken English skills
- Flexibility, creativity, collaborative spirit and excellent communication skills
- A high sense of responsibility, reliability, personal commitment and goal-oriented and independent work

### **We offer**

- Exciting research tasks in the field of machine learning with highly socially relevant fields of application
- The opportunity to make valuable contributions to cutting-edge AI research and to contribute to scientific papers
- An attractive interdisciplinary working environment in an experienced and committed international team
- Excellent infrastructure for scientific work
- Working from home and family-friendly working conditions

- A range of different sports on and around the campus
- A work place located on the edge of a picturesque landscape

The position is to be filled with 40 to 80 hours per month. It is limited to one year. The salary is depending on your degree (13,25 Euros without / 13,83 Euros with Bachelor's degree).

For further information please contact **Frau Prof. Dr. Marina Höhne** (E-Mail: [mhoehne@atb-potsdam.de](mailto:mhoehne@atb-potsdam.de)) and visit our website [www.atb-potsdam.de](http://www.atb-potsdam.de).

If you would like to contribute your expertise to our interdisciplinary research, we look forward to receiving your detailed application documents as one PDF document. Your application needs to include a strong motivation letter that demonstrates your suitability for the advertised student research assistant position, a detailed CV, all credentials with grades (A level, and the current available overview of Bachelor and/or Master courses and grades), recommendation letters and at least one reference contact.

Please apply by **21.11.2024**, using the online application form for the job advertisement, **reference code 2024-DS-5** at <https://www.atb-potsdam.de/en/career/vacancies>. Applications received after the application deadline cannot be considered.

Equality of opportunity is part of our personnel policy. Disabled applicants with adequate qualification will be preferentially considered.

By submitting an application, you agree that your job application documents will be stored for a period of six months, even in the case of an unsuccessful application. Further information on the processing, storage and protection of your personal data can be found at <https://www.atb-potsdam.de/en/privacy-policy> ..

Published on 25.10.2024