At the Department of Agriculture, Ecotrophology and Landscape Development of the **Anhalt University of Applied Sciences**, Campus Bernburg, there is a vacancy, from **01.12.2022** (subject to funding approval) for a period of 3 years for the part-time position (65%) of a

Research Assistant (m/w/d), Nr. 297
Movement Ecology and Land Use to be filled.

The employment relationship is based on the collective agreement for the public service of the federal states. The appointment is made in pay group 13 TV-L. *Within the scope of the assigned tasks, we offer the opportunity for a doctoral degree.*

The position is located at the Chair of Faunistics and Wildlife Conservation and is integrated in the research project "BioTrain: Training machine learning algorithms: new pathways to analyze and predict patterns and relationships of cross-scale biodiversity data". The project predicts ecosystem functionality based on biodiversity and environmental data using powerful machine learning algorithms. The position advertised here covers the area of "Mobile Links", which aims to develop predictive models for the influence of grazing animals (mobile links) on plant and bird communities and thus landscape resilience across different spatial and temporal scales.

Your tasks will include:

- Analysis of the influence of grazers (mobile links) on plant and bird communities and landscape resilience across different spatial and temporal scales based on existing datasets (more than 10 years of high-resolution movement data of grazers, behavioral data, biodiversity data, satellite data).
- Application and further development of machine learning algorithms
- Development of predictive models based on external training data sets
- Development of management concepts across scales, cost-benefit analysis
- Provision of software (R packages) as well as further development and optimization of management concepts
- Presentation of results to land users, environmental associations, authorities as well as at scientific meetings and publications in international scientific journals.

Requirements:

- Academic degree (diploma or master's degree) in ecology/ zoology/ biology/ conservation or other natural sciences and strong interest in mathematical modeling **or** academic degree (diploma or master's degree) in applied mathematics (numerical methods) and strong interest in ecological modeling
- Very good statistical and analytical skills (preferably good knowledge of R)
- Good working knowledge of Geographic Information Systems (GIS)
- Experience in one or more of the following areas: mathematical or computer simulation modeling, database management, telemetry, wildlife ecology, wildlife biology
- A strong interest in interdisciplinary research and willingness to engage in scientific exchange with other disciplines
- Strong, solution-oriented communication and comprehensible presentation of project results are desired
- Motivation, independent working style, ability to work under pressure, ability to work in a team and negotiation skills
- Very good knowledge of German and English (written and spoken)

You can expect:

- Collaboration in a cross-departmental, interdisciplinary research project with high application relevance
- Support and networking within the framework of the Graduate Academy and the PhD Centre of Life Science at Anhalt University of Applied Sciences
- Excellent research opportunities at one of the strongest research universities in the country
- Flexible and family-friendly working time models

Anhalt University of Applied Sciences strives to increase the career opportunities of women. Women are therefore expressly encouraged to apply. For severely disabled persons, the provisions of SGB IX apply in the case of equal suitability, ability and professional performance.
Please use the online portal of the Anhalt University of Applied Sciences for your application (www.hs-anhalt.de/nc/hochschule-anhalt/aktuelles/stellenangebote). You can submit your application with a letter of motivation, curriculum vitae, certificates, relevant excerpts from theses (if possible also letters of recommendation, publications) until **03.10.2022** under the following link:

Apply now

By clicking on the link, you agree to the storage and processing of your data for the purpose of the application process.
Your documents/data will be deleted or destroyed in accordance with data protection regulations once the recruitment process has been completed. Unfortunately, application costs cannot be reimbursed.
If you have any queries, please contact Prof. Christina Fischer (christina.fischer@hs-anhalt.de).