GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

Fakultät für Agrarwissenschaften
Department für Nutztierwissenschaften

Open Semester, Bachelor‘s, and Master‘s projects on edible insects

Background

In recent years, there has been a growing interest in using insects due to their ability to generate the same amount of protein as traditional farm animals while requiring fewer resources such as land, water, and feed (Kipkoech *et al*., 2023; Sogari *et al*., 2023). Moreover, insects serve multiple purposes, such as being used as feed, contributing to the creation of fertilisers, and being utilised in developing diverse cosmetic, industrial, and pharmaceutical products (Patyra & Kwiatek, 2023).

Why an open project?

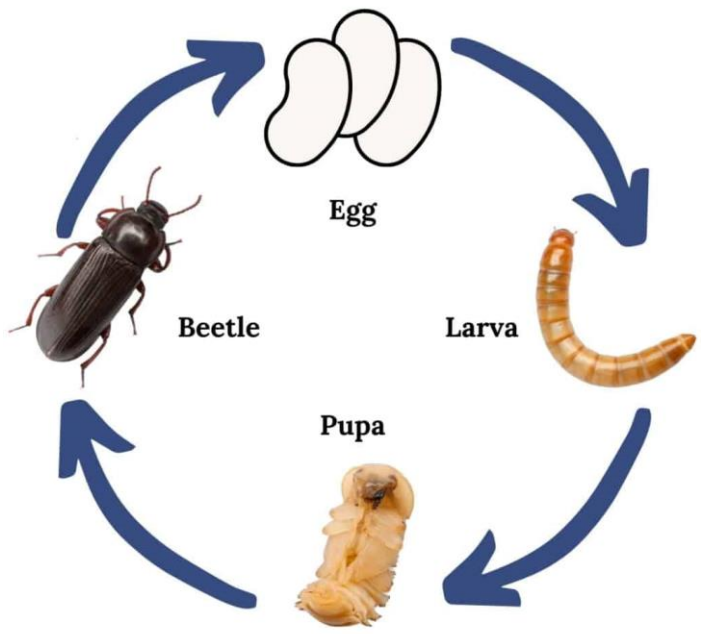
We believe in your ingenuity and creativity, particularly in:

- Contributing to an eco-friendly, protein-rich alternative that’s shaping the future of food
- Laying the groundwork for future and long-term research opportunities
- Pioneering solutions in sustainable food and feed systems that can have a lasting global impact

Image: Osei, 2025

What will be your task?

- Plan and implement the project
- Collect and record data on the insects
- Statistical analysis of data



(Neis-Beeckmann, 2021)

What should you bring?

- Background or interest in agriculture
- Curiosity
- Interest in insect work
- Knowledge and/or willingness to learn **basic** data analysis
- Proficient in English and German

What do we offer you?

- Mentorship
- Introduction to basic data analysis

Sie studieren **Agrarwissenschaften** oder **Biologie**?

Applications are welcome throughout the year.

Literatur*:*

Green Pet Care. (2024, July 18). What can parakeets eat besides bird food? Green Pet Care. https://www.greenpetcare.com.cn/what- can-parakeets-eat-besides-bird-food_1717.html

Kipkoech, C., Jaster-Keller, J., Gottschalk, C., Wesonga, J. M., & Maul, R. (2023). African traditional use of edible insects and challenges towards the future trends of food and feed. *Journal of Insects as Food and Feed*, *9*(8), 965-988.

Neis-Beeckmann, P. (2021, April 7). The life cycle of a mealworm from egg, larva, pupa to beetle. BIOPRO Baden-Württemberg GmbH. https://www.biooekonomie-bw.de/en/articles/news/smart-insect-farms-sustainable-protein-sources-future

Patyra, E., & Kwiatek, K. (2023). Insect meals and insect antimicrobial peptides as an alternative for antibiotics and growth promoters in livestock production. *Pathogens*, *12*(6), 854

Sogari, G., Amato, M., Palmieri, R., Saadoun, J. H., Formici, G., Verneau, F., & Mancini, S. (2023). The future is crawling: Evaluating the potential of insects for food and feed security. *Current research in food science*, *6*, 100504.

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