

The Institute of Agricultural Technology of the Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forests and Fisheries, is seeking for the Braunschweig site at the earliest possible date (01.03.2022 at the earliest) a full time

**PostDoc position in electrical engineering or related discipline (f/m/d)**

to establish a new research area in the field of agri-photovoltaics. Agri-Photovoltaics (Agri-PV) refers to a field of work in which the simultaneous use of land for agricultural crop production as well as electricity production (photovoltaics) is aimed at. It ranges from intensive arable farming to extensive grazing of land. The aim is to establish a new cross-disciplinary research topic and to develop innovative approaches for agricultural production.

The position serves the applicant's own scientific qualification and aims to prepare him/her for taking on management, coordination and leadership functions in public research institutions or in private-sector research and development. The employment relationship is limited to **48 months** within the maximum fixed-term period according to § 2 para. 1 of the Wissenschaftszeitvertragsgesetz (German Science Temporary Contract Act).

**Your tasks:**

- Literature research
- Modelling application options of Agri-PV systems
- Development and holistic investigation of new prototypical systems
- Preparation of scientific publications
- Presentation of results at national and international conferences
- Design and acquisition of projects in inter-institutional networks
- Supervision of relevant master's theses and dissertations

**Technical requirements profile:**

- University degree (M.Sc. or equivalent) in electrical engineering, mechanical engineering, agricultural engineering or related subjects
- PhD in one of the above-mentioned subjects
- Sound knowledge in the field of electrical engineering
- Ability and interest in interdisciplinary work
- Interest in developing creative and innovative approaches in the field of Agri-PV
  
- Proven scientific publications
- Knowledge of agricultural science desirable

**Personal requirements profile:**

- Enjoyment of research work in an interdisciplinary environment
- Goal-oriented and independent working style, high degree of initiative
- Strong cooperation and communication skills
- Very good knowledge of English and, if no knowledge of German is available, willingness to learn German; good knowledge of German is an advantage
- Willingness to travel

We offer you an interesting and versatile position with a high level of personal responsibility in a supportive environment. You will be given a high degree of personal creative freedom and can pursue your own ideas in the field of Agri-PV. As your professional and personal development is important to us, we offer a family-friendly working environment, flexible working time models and a comprehensive range of further training opportunities. You will work on a large park-like research site with leisure facilities (tennis, volleyball) and a kindergarten (parent initiative).

The employment is governed by the Wage Agreement for Public Services (TVöD-Bund). The payment of remuneration is carried out according to tariff-category 14 TVöD. A part time position is also possible.

The Thünen Institute promotes the professional equality of women and men and is thus especially interested in applications from women.

Severely disabled applicants with equal qualification will be given particular consideration. Only a minimum physical aptitude is expected from them.

For technical questions, please contact Prof. Dr. Christina Umstätter (Tel. 0531/ 596 4101; e-mail: christina.umstaetter@thuenen.de)

Interested candidates should send their applications (including motivation letter, CV, list of publications, copies of relevant certificates, names and addresses of personal references) via e-mail in one PDF file referring to **“2021-285-AT”** by **30.01.2022** to

at-bewerbungen@thuenen.de  
Prof. Dr. Christina Umstätter  
Thünen-Institut für Agrartechnologie  
Germany

Information about Artikel 13 DSGVO: [www.thuenen.de/datenschutzhinweis-bewerbungen](http://www.thuenen.de/datenschutzhinweis-bewerbungen).

The Institute of Agricultural Technology of the Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forests and Fisheries, is seeking for the Braunschweig site at the earliest possible date (01.03.2022 at the earliest) a full time

**PostDoc position with specialisation in agricultural or mechanical engineering or related discipline (f/m/d)**

to develop the research area "technological principles of novel crop production systems".

Digitalisation, electromobility and autonomous driving create the opportunity to shape disruptive changes in crop production: Networked small robots, precise sub-plot management, increased diversity in the field. However, a major challenge is to integrate the diverse individual innovations into crop production systems that work under commercial conditions and better align agriculture with societal demands. The aim of the project is to design the agricultural technology contribution to this development and to test it within the framework of interdisciplinary projects. If successful, this should result in a long-term interdisciplinary research network spanning various research institutions.

The position serves the applicant's own scientific qualification and aims to prepare him/her for taking on management, coordination and leadership functions in public research institutions or in private-sector research and development. The employment relationship is limited to 48 months within the maximum fixed-term period according to § 2 para. 1 of the Wissenschaftszeitvertragsgesetz (German Act on Fixed-term Scientific Contracts).

**Your tasks:**

- Literature research
- Development and holistic investigation of new prototypical systems (in interdisciplinary cooperation, such as with farm economics and crop production)
- Design and acquisition of projects in inter-institutional networks
- Preparation of scientific publications
- Presentation of results at national and international conferences
- Supervision of relevant master's theses and dissertations

**Technical requirements profile:**

- University degree (M.Sc. or equivalent) in agricultural engineering, mechanical engineering, or related subjects
- PhD in one of the above-mentioned fields
- Sound knowledge in the field of sensor and robot systems
- Good knowledge in the field of crop production
- Ability and interest in interdisciplinary work
- Interest in developing creative and innovative approaches in the field of digital crop production
- Proven scientific publications

**Personal requirement profile:**

- Enjoyment of research work in an interdisciplinary environment
- Goal-oriented and independent working style, high level of initiative
- Strong cooperation and communication skills
- Very good knowledge of English and, if no knowledge of German is available, willingness to learn German; good knowledge of German is an advantage
- Willingness to travel



We offer you an interesting and versatile position with a high level of personal responsibility in a supportive environment. You will be given a high degree of personal creative freedom and can pursue your own ideas in the field of sensor and robot systems for crop production. As your professional and personal development is important to us, we offer a family-friendly working environment, flexible working time models and a comprehensive range of further training opportunities. You will work on a large park-like research site with leisure facilities (tennis, volleyball) and a kindergarten (parent initiative).

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Prof. Dr. Christina Umstätter  
Thünen-Institut für Agrartechnologie  
Germany

Information about Artikel 13 DSGVO: [www.thuenen.de/datenschutzhinweis-bewerbungen](http://www.thuenen.de/datenschutzhinweis-bewerbungen).