



The University of Natural Resources and Life Sciences, Vienna (BOKU)

is currently inviting applications for the position of a
Full Professor of

Smart Farm and Forest Operations

(Digitale Transformation in der Land- und Forsttechnik)

The University of Natural Resources and Life Sciences, Vienna (BOKU), Department of Forest and Soil Sciences, seeks to appoint a Full Professor of Smart Farm and Forest Operations with 1st March 2021. The topic to be developed and the professorship are supported by the Federal State of Lower Austria as an endowed professorship. The position is offered in accordance with § 98 of the 2002 Universities Act in the form of an ongoing contract.

The University of Natural Resources and Life Sciences, Vienna, the "Alma Mater Viridis", is the University of Sustainability and Life Sciences. It is BOKU's task to make a key contribution to the conservation and protection of resources for future generations through its wide variety of expertise. Combining natural sciences, engineering plus social and economic sciences, its aim is to increase knowledge of the ecologically and economically sustainable use of natural resources. With 11,000 students and over 2,800 staff members, BOKU is one of Europe's leading life science universities.

The central tasks of the Department of Forest and Soil Sciences are research and teaching on the analysis, modelling and management of forest ecosystems, as well as on land use and soil protection. The department feels particularly obliged to further develop those disciplines of knowledge where it is the only institution representing them in Austria, i.e. soil science, silviculture, forest ecology, forest growth, forest entomology, pathology and protection as well as forest engineering. They cover all aspects of the production chain from soil to the multifunctional services of forest ecosystems.

The applicant should be qualified in the fields of cyber-physical systems, automation and robotics as well as data management in research and teaching. They should promote the application of methods of control engineering, sensor technology and machine learning for the design of resource and energy efficient machines, procedures and process chains in agriculture and forestry. The resulting best-practice solutions must be disseminated in the complex value-added networks and should lead to an interdisciplinary transfer of knowledge and technology.

The applicant is expected to establish and lead the field "Digital Transformation in Agricultural and Forestry Engineering", which extends and complements the existing research activities for the development and evaluation of procedures and process chains along agricultural and forestry value chains. In order to manage and support the process of digital transformation in agriculture and forestry, cooperative research involving other BOKU departments and partner organizations is necessary. The active participation in the project DiLaAG at the University and Research Centre in Tulln and the collaboration in the Doctoral School DigiDoc are desired.

Teaching obligations include both basic technical education in the bachelor's degree programs in agriculture and forestry and in-depth education in the field of "automation and digitization" in the relevant master's and doctoral programs. The establishment of courses in the fields of machine and production data analysis as well as sensor technologies and networks is expected.

Sound research experience outside BOKU is desired.

Job specifications:

- Venia docendi or foreign equivalent or an equivalent subject-relevant academic qualification.



- Relevant experience and competence in teaching, guidance in scientific work, as well as the supervision of junior scientists (PhD students). The candidate is expected to submit a teaching portfolio.
- Teaching in German and English.
- Excellent publication achievements in the scientific field.
- Subject-specific research experience of national and international reputation, as well as ability to network.
- Experience in the successful acquisition, execution and management of research projects.
- Cooperation with national and international research institutions and with relevant partners from public services and business.
- Management and interpersonal skills, including gender and diversity management skills, communication and team skills and a willingness to participate in public relations.
- Willingness to participate in relevant focus and cooperation programs of the University.
- Willingness to participate in the self-governance of the University of Natural Resources and Life Sciences, Vienna.

For more information about this position, please contact the Head of Department of Forest and Soil Sciences, Univ.-Prof. Dr. Karl Stampfer, phone: +43 1 47654 91501, e-mail: karl.stampfer@boku.ac.at.

Please send your application in German or English by e-mail to rektorat@boku.ac.at and one hard copy no later than **20th January 2021** (date on postage stamp) to the Rectorate of the University of Natural Resources and Life Sciences, Vienna (BOKU), Gregor-Mendel-Straße 33, 1180 Vienna, Austria.

Please include the following documents with your application:

- CV including details of professional, teaching and research activities (incl. presentation of teaching portfolios – further information is available in German at http://www.boku.ac.at/fileadmin/data/H05000/H17100/Qualifizierungsvereinbarung/Lehrportfolio_-_Leitfaden_zur_Erstellung.pdf)
- List of publications (referenced / not referenced), presentations and projects
- Copies of 5 recent publications that you consider particularly important
- Draft concept for research and teaching; presentation of planned research priorities (max. 4 pages A4)
- Brief explanation of why you believe yourself to be particularly suitable for this position (max. 1 page A4)

By submitting the application, you also agree to the participation of an external recruitment consultant in the selection process.

The University of Natural Resources and Life Sciences, Vienna is seeking to increase the number of its female faculty members and therefore, qualified women are strongly encouraged to apply. Women are given priority when qualifications are equal, except in cases where there are outweighing factors concerning another candidate.

The employment contract is classified as group A1 of the collective agreement for university employees. Minimum gross yearly salary: € 73.441,20; the actual annual gross salary is subject to negotiation.

More information on this position and about BOKU and this department can be found on the website: <https://boku.ac.at/wabo>