

Vienna University of Technology, generally referred to as TU Wien, is located in the heart of Europe, a place where one can experience cultural diversity and international life. Research, teaching and learning have been conducted here in the service of progress for more than 200 years. TU Wien is amongst Europe's most successful universities of technology and, with over 30,000 students and a staff of about 4,800, is Austria's largest scientific and engineering research and education institution.

At the Institute for  
Engineering Design and Logistics Engineering  
at the Faculty of  
Mechanical and Industrial Engineering  
the position for a

**University Professor**

for the specialist field of

**“Aircraft Systems”**

with contractual employment (permanent full time contract) is to be filled  
as of 01.01.2019.

**This is a promoted endowed professorship regulated by § 98 of the 2002 Universities Act (UG)**

The appointment is allocated in TU Wien's development plan and is promoted as endowed professorship in the first five years by the Federal Ministry for Transport, Innovation and Technology together with the aeronautical companies Diamond Aircraft, FACC AG, Frequentis AG, Pankl Aerospace, Rübig, Schiebel Elektronische Geräte GmbH and Testfuchs GmbH under the Research, Technology and Innovation (RTI) initiative "Takeoff" in the field of "Innovative Technologies for Aviation". An accompanying external evaluation of the professorship takes place during the five-year start-up phase.

The professorship for System Technology of Aircraft is linked to the research focus Computational Science & Engineering within the development plan of TU Wien. Focus of the professorship will be Aircraft Systems, especially in the areas of:

- Aircrafts in the surrounding operational field
- Systems in aircraft
- Complex aircraft structures

These fields include among others manned and unmanned fixed wing aircraft and rotorcraft as well as hybrid systems. The holder of the position will represent these areas in a more specific framework in research, teaching, training and externally funded research. She/He should have a bridge-building function to the private sector and the stakeholders in the national and international aeronautical industry; industrial experience is therefore welcome. She/He should develop an independent teaching and research program in the field of Aircraft Systems within an own research group.

The guiding aim of the endowed professorship is to establish the leading Austrian institution in these areas in scientific teaching and research with a long-term perspective. This is underlined by the memberships of TU Wien in the Austrian Aeronautics Industries Group (AAI) and the International Forum for Aviation Research (IFAR). Furthermore TU Wien has close links to the American Helicopter Society (AHS), Deutsche Gesellschaft für Luft- und Raumfahrt (DGLR) as well as to aviation authorities. The professorship will be supported by a research team shaped by the holder of the position and funded within the professorship.

An adequate participation in the research areas and curricula of TU Wien and the Faculty of Mechanical and Industrial Engineering and the university's self-management is expected; it is a dedicated task of the professorship.

The holder of the position should show high willingness to cooperate within the university and also externally and establish professional connections across institutes, faculties and universities (e.g. concerning the intended (mid-term) interfaculty master program for aviation). Cooperative relationships will be supported by TU Wien among other things by a departmental and interfaculty, practical research and development environment.

**Profile of requirements:**

- Completed doctoral or PhD studies corresponding to the position described from a domestic or equivalent foreign university or research institution (or achievement of an equivalent scientific qualification)
- The qualification for lecturing (*venia docendi*) acquired at a domestic or equivalent foreign university or an academic qualification recognised as equivalent to qualification as an university lecturer
- Publications in internationally recognised academic professional journals in the fields of work of the professorship
- Pedagogic or didactic qualification for academic teaching in the field of specialisation cited, in English as a prerequisite. If German is not already prerequisite the willingness to learn the german language in mid-term perspective is expected.
- Research experience relevant to the field of specialisation with national and international reputation as well as skills in networking
- Requirement of a research and teaching strategy
- The incumbent will ideally have competence or experience in the professional promotion of young scholars and women as well as in the field of gender mainstreaming

**Particular requirements are:**

- Excellent knowledge in the field of system technology of aircrafts in the surrounding operational field
- Excellent knowledge in design and layout of manned and/or unmanned fixed wing aircraft and rotorcraft (fixed wing aircraft, helicopters, tiltrotor- / tiltwing aircraft and hybrid systems)
- Knowledge of the relevant parts of air law, especially Certification Specifications for aircraft and Certification Processes
- Good knowledge of engineering design to realize new concepts of aircraft
- Experience in the cooperation with research institutions and industrial partners on national, EU- and international level. Experience in private sector (aircraft design, engineering and design in general) is highly appreciated
- Experience in aquisition, performance and management of research projects
- Qualification and willingness to lead a research area respectively a research group
- In the case of limited knowledge of German language willingness to learn German in a suitable time
- It is expected that the area of Vienna will be the place of living

The Faculty of Mechanical and Industrial Engineering offers excellent working conditions in an attractive research area with a large potential for future development. The Institute for Engineering Design and Logistics Engineering resides in a modern, completely renovated building with new, modern infrastructure. A large number of cooperations with many partners in science and industry is well established. The Institute is very active in national, transnational and international projects and other programs of Scientific Excellence.

**TU Wien offers:**

- Excellent working conditions in an attractive research environment
- Attractive compensation combined with a supplemental retirement pension from the employer
- Financial support of research activities in the first years (equipment endowment, etc.); support in moving to Vienna (if required)
- Dual career advice (if required): We offer partners of the university professors appointed to TU Wien various support opportunities tailored to their individual situation
- A cooperative environment in a city with an extraordinary high life quality

The professorship is classified in the A1 category of the collective bargaining agreement for employees of universities as standard at TU Wien. Therefore a minimum salary of EUR 5,005.10/month (14 times a year) is provided for; a higher salary depending on qualifications and experience is subject of the appointment negotiations.

**General Information** about

- the TU Wien can be found at [www.tuwien.ac.at/en/](http://www.tuwien.ac.at/en/)
- the Faculty for Mechanical and Industrial Engineering can be found at <https://tiss.tuwien.ac.at/adressbuch/adressbuch/fakultaet/1670?locale=en>
- the Institute for Engineering Design and Logistics Engineering can be found at <https://www.ikl.tuwien.ac.at/home/EN/> ; contact person at the institute for additional information is Prof. Michael Weigand ([michael.weigand@tuwien.ac.at](mailto:michael.weigand@tuwien.ac.at))

Applications must include the following documents:

- A detailed curriculum vitae (including professional and academic biography)
- A list of publications
- A listing of teaching and lecturing activities
- Copies of the five most important publications with regard to the position announced
- Presentation of previous academic activities as well as a survey of research and development projects carried out and of funding raised
- Motivation letter and thoughts on the future positioning and further development of the field of System Technology of Aircraft at the Institute for Engineering Design and Logistics Engineering and TU Wien in research and teaching

TU Wien aims at increasing the share of women, in particular in management functions and in the academic/artistic staff and therefore expressly encourages qualified women to apply. Female applicants who are equally qualified as the best qualified competing male applicant will be accepted by preference unless personal qualifications of a competing male applicant prevail.

We endeavour to hire handicapped people with corresponding qualifications and therefore expressly encourage them to apply. For more information please contact the confidential counsellor for handicapped persons at TU Wien, Mr Gerhard Neustätter (contact: Gerhard Neustätter, [gerhard.neustaetter@tuwien.ac.at](mailto:gerhard.neustaetter@tuwien.ac.at)).

As a modern university that is considerate of individual development and realisation of potential, TU Wien stands up for equal opportunities, for compatibility of career and family/leisure and for the needs of dual career couples.

Applications comprising all requested documents should be sent --open-- (date of postmark or date of email) to

TU Wien

*Announcement §98 UG professor position Aircraft Systems*

Dean of the Faculty of Mechanical and Industrial Engineering  
Getreidemarkt 9/E402  
1060 Wien, Austria

Besides the written application an USB-Stick or CD-ROM has to be added containing all application documents.

The Dean of the Faculty: Univ.-Prof. Dipl.-Ing. Dr.-Ing. Detlef Gerhard