



Open to new ideas. Since 1365. As a research university with high international visibility and a wide range of degree programmes, the University of Vienna is committed to basic research open to application and research-led teaching, as well as to career development of young researchers and to the dialogue with economy and society. That way, the University of Vienna contributes to the education of future generations and to the society's ability to innovate.

The appointment of particularly qualified researchers to university professors is an important strategy of the University of Vienna. Become part of this vibrant and future-oriented organisation.

At the Faculty of Physics of the University of Vienna the position of a

**University Professor
of
Computational Material Discovery**

(full time, permanent position; in case of a first-time appointment to a professorship, the appointment may be initially limited – with an extension option) is to be filled.

To Strengthen the group Computational Materials Physics, the Faculty of Physics seeks an excellent candidate with a strong background in the computationally driven discovery and design of new materials. The new professorship will complement the existing group members, by providing a link between data science and materials science. The candidate should have a proven record in the application of ab initio density functional theory and large-scale data acquisition. Specifically, expertise in one of the following areas is desirable: (i) Unleash the potential of and discover hidden relationships in big databases created from high throughput first principles simulations. (ii) Design machine learning algorithms to accelerate materials research using first principles methods. (iii) Develop multiscale methods to bridge the length and time scales accessible from first principles to those required to model mesoscopic properties relevant for applications.

Successful candidates should have the following qualifications:

- Doctoral degree/PhD and post-doctoral experience at a university or other research institution
- Habilitation (venia docendi) in a subject field relevant to this position or an internationally accepted equivalent qualification is desirable
- Outstanding achievements in research, excellent publication record, international reputation
- Experience in designing, procuring and managing research projects, as well as the willingness and ability to lead research groups
- Enthusiasm for excellent teaching, teaching experience at universities as well as the ability and willingness to teach students in all phases of their studies (bachelor's, master's, or doctoral level), to supervise academic theses and to promoting young academic colleagues

The University of Vienna expects the successful candidate to acquire, within three years, proficiency in German sufficient for teaching in bachelor's programmes and for participation in university committees. In addition, the University of Vienna expects the successful candidate to be prepared to take over responsibility on the organisational level of the Faculty and the University, if necessary.

We offer:



- a negotiable and attractive salary (classification according to the [Collective Bargaining Agreement for University Staff](#), allocation to job group A1; section 98 of the Universities Act 2002); the salary will be individually negotiated under consideration of the previous career development and the current income situation
- in addition to the statutory social insurance, the University of Vienna offers a pension fund to its employees
- a “start-up package”, in particular for the initiation of research projects
- a dynamic research location with well-established research funding provisions
- attractive working conditions in a city with a high quality of life
- comprehensive advice and support in relation to finding an accommodation, change of schools and dual career
- a wide range of support services offered by central service institutions

The University of Vienna pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity (<http://diversity.univie.ac.at/en>). The University puts special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.

Application documents:

- **Application letter**, including a brief description of:
 - current research interests and research plans for the immediate future
 - current and planned foci in academic teaching and the supervision of young researchers
- **Academic curriculum vitae**, including information about “esteem factors” (e.g. experience as a publisher, functions in research societies or programme committees)
- **List of publications**, including:
 - specification of five key publications which the applicant considers particularly relevant to the advertised professorship
 - provision of an Internet link for download or electronic submission of PDF versions of these five publications
 - information about citations and impact factors, depending on the common practice in the relevant research area
- **List of talks given**, including information about invited keynote lectures at international conferences
- **Third-party funds** list of acquired third-party funds (subject, duration, origin, volume) as well as, if applicable, of inventions/patents
- **Overview of previous academic teaching and supervised theses, especially doctoral theses**
- **Teaching evaluations** (if available)
- **Copies of documents and certificates**



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Applications in English should be submitted by e-mail to the Dean of the Faculty of Physics of the University of Vienna, ao. Univ.-Prof. Dr. Martin Fally, Boltzmannngasse 5, 1090 Vienna (dekanat.physik@univie.ac.at).

Reference no.: 5e-30/2018

The application deadline is **7 January 2019**.

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