

**PROFESSORSHIP FOR
BUSINESS ANALYTICS AND
TECHNOLOGY TRANSFORMATION**



INFORMATION FOR APPLICANTS

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1. The Johannes Kepler University Linz (Austria)

The Johannes Kepler University Linz (JKU Linz, <http://www.jku.at>) is a young European university with an expert and accomplished focus on the academic areas of social and economic sciences, law, natural sciences and engineering. The studies of Human Medicine were added in 2014. During its fifty year history, the university has achieved a national and international standing with its manifold achievements in research and teaching. The JKU is a campus-style university located north of the city of Linz. The unique campus environment provides close proximity between all disciplines. Interdisciplinary collaboration, innovative base-knowledge research, and close ties to local businesses and the business community have helped to establish its principal direction. By upholding principles of unity in research and teaching as well as fostering advanced methods of knowledge transfer, the JKU Linz generates and provides services for the greater good of society, the business community, fine arts and culture. Core target groups include students, the scientific community as well as organizations representing private and public life.

As the largest institution of research and education in Upper Austria, and thus as a knowledge transfer center, the university contributes to the continual support and development of Upper Austria as a dynamic economic region. The JKU is also actively involved in competence centers, and has developed spin-off programs that support the establishment of new companies. The JKU's mission statement defines and outlines the university's basic principles for future development and its strategic concept.

A special feature of the university is the campus-style layout and easy access to three faculties

- Faculty of Social Sciences, Economics & Business
- Faculty of Law
- Faculty of Engineering & Natural Sciences

on 350,000 m² of land located in a northern section of the city of Linz, while the

- Faculty of Medicine

is centrally located on the MED Campus in Linz.

2. The Faculty of Social Sciences, Economics & Business

The Faculty of Social Sciences, Economics & Business is comprised of 34 institutes divided into the following departments that are actively involved in both base-knowledge and application-oriented research:

- Business Administration and Business Informatics
- Economics and Applied Statistics
- Social Studies and Humanities (Sociology, Politics and Social Policy, History, Philosophy and Knowledge Theory)

■ Education and Psychology

See: <http://www.sowi.jku.at> for detailed information.

3. The Academic Area of “Business Administration and Business Informatics”

The academic area „Business Administration and Business Informatics” consists of the following institutes:

- Strategic Management
- Business Informatics - Communications Engineering
- Business Informatics - Data & Knowledge Engineering
- Business Informatics - Information Engineering
- Business Informatics - Software Engineering
- Controlling and Consulting
- Corporate Finance
- Digital Business
- Entrepreneurship and Organizational Development
- Financial Accounting and Auditing
- Leadership and Change Management
- Innovation Management
- International Management
- Management Accounting
- Corporate and Regional Environmental Management
- Organization Science
- Production and Logistics Management
- Public and Non-Profit Management
- Retailing, Sales and Marketing
- Tax Management

The academic area of Business Administration and Business Informatics is going to fund a Business School (<http://www.jku.at/bus>) which will bundle the area’s competencies and activities. The Business School has an international focus. Its goals are best expressed through the following Vision Statement:

1. We are a regionally embedded academic hub with an international orientation.
2. We enhance connections across disciplines in management-relevant research and teaching.
3. We foster entrepreneurial thinking and practice in people and organizations.

The Business School has three divisions. The professorship for “Business Analytics and Technology Transformation” is part of the division “Supply Chain and Information Management”, which is currently composed of the following institutes:

- Business Informatics - Communications Engineering
- Business Informatics - Data & Knowledge Engineering
- Business Informatics - Information Engineering
- Business Informatics - Software Engineering
- Digital Business
- Production- und Logistics Management

4. General Requirements for the Professorship for “Business Analytics and Technology Transformation”

At the Faculty of Social Sciences, Business and Economics as well as at the Faculty of Engineering and Natural Sciences, several chairs, study programs, and focus areas in study programs in the Data Science and Analytics field have already been established. The professorship for “Business Analytics and Technology Transformation” will be part of the division “Supply Chain and Information Management” of the Business School and it aims at complementing already existing competencies at JKU in Data Analytics, Data Science, and Business Intelligence in research and teaching, focusing on business applications.

At the Faculty of Engineering and Natural Sciences, a professorship for “Computational Data Analytics” has recently been opened. Furthermore, a major in “Data Science” is being offered within the Master program “Computer Science”.

At the Faculty of Social Sciences, Business and Economics, the chair of Business Analytics - Data & Knowledge Engineering represents the field of “Business Intelligence & Data Science” in research and teaching with a major in “Business Intelligence & Data Science” in the master program “Business Informatics”. The Institute of Statistics represents the field “Statistics and Data Science” through a new Bachelor program “Statistics and Data Science” and a major in Data Science within the Master program in Statistics. The application and the further development of Operations Research methods form a research focus at the Institute of Production and Logistics Management. This focus is reflected in a major in the Bachelor program in Business and Economics and in the major “Logistics Management” in the Business Informatics Master program. At the Institute of Economics, a tenure-track position for „Applied Econometrics - Big Data” is currently being filled.

Starting in fall 2019, the subject areas “Business Administration and Business Informatics” and “Economics” are jointly offering the Master program “Economic and Business Analytics”. The professor for “Business Analytics and Technology Transformation” is expected to significantly contribute to this study program through research-driven teaching as well as to other study programs of the Business School.

4.1. Research

Research achievements on an internationally comparable level in the field of Business Analytics and Technology Transformation are expected. Business Analytics describes the continuous analysis of business data, with the aim to extract knowledge about past and future activities, and to exploit them in planning and decision-making tasks. Technology Transformation concerns supporting the respective necessary, accompanying or triggered transformation processes within organizations. The research foci of the professorship are:

- **Applications of Business Analytics** in different functional business areas, such as Marketing, Production, Logistics, Finance & Accounting, Human Resource Management, Organization and Strategy.
- **Methods of Business Analytics, especially in data management and data analysis** addressing the five Vs (Volume, Velocity, Variety, Veracity, Value) of Big Data in the context of analytic questions in business and economics.
- **Technology Transformation and Business (Model) Transformation** to allow, support, and implement business analytics processes from data acquisition (incl. data cleaning) to the implementation of decisions.

The successful candidate is expected to initiate and perform research activities on a high scientific level and to produce research output according international standards.

Regarding the participation of the subject area in the university focus area “Digital Transformation”, willingness to interdisciplinary collaboration within this area is appreciated.

The candidate’s application regarding his/her qualifications in research – in relation to scientific age - will be considered under the following criteria:

- Post-doctorate degree (*venia docendi*) or equivalent formal, internationally recognized qualification (such as tenure or positively evaluated junior professorship) in the field of Business Administration, Business Informatics or a related discipline.
- High methodological competence in the subject area

- The quality, quantity and visibility of existing publications in the fields of Business Analytics and Technology Transformation (e.g., Citation Index, Hirsch Factor, publications in leading journals according to VHB-Ranking – JOURQUAL 3: <https://vhbonline.org/vhb4you/jourqual/vhb-jourqual-3/>)
- Academic and scientific lectures/presentations at international conferences, at other universities and research institutions as well as for practitioners
- The successful candidate should be well-established in the international research community, be an active member in academic/scientific associations and/or be an active member on editorial boards
- The quality and quantity of research projects
- Acquisition of external funding and research grants awarded by national and international funding agencies
- Experience at universities or research institutions
- International experience through longer stays abroad
- Experience in collaboration with practitioners
- Experience in interdisciplinary research
- Research concept for the field of “Business Analytics and Technology Transformation”

4.2. Teaching

The successful candidate is expected to represent the entire field of “Business Analytics and Technology Transformation” in all study programs offered by the subject area, respectively Business School, including interdisciplinary programs as well as Executive Education. The willingness to teach courses with a large number of participants is expected. Particularly, participation in the education of students enrolled in the new Master program “Economic and Business Analytics” at the JKU Business School, the further development of this Master program in collaboration with the interdisciplinary program direction from the fields of Business Administration and Economics, and the participation in teaching tasks as well as the further development of the planned Bachelor program in Business Administration is expected.

The candidate’s application regarding his/her qualifications in research will be considered under the following criteria:

- The quality and quantity of courses taught at Austrian universities and/or universities abroad and/or at base-knowledge research institutions in the field of Business Analytics and Technology Transformation.
- Didactic qualifications including digital media competencies
- Research-led teaching experience
- Experience in the development and implementation of academic and post-graduate teaching and continuing education programs
- Experience in supervising academic papers at all levels

- Teaching concept for the field “Business Analytics and Technology Transformation”.

4.3. Additional Requirements

Ongoing internationalization activities at the Business School require teaching and lecturing skills in both German and English. The successful candidate possesses an excellent command of English. Applicants whose native language is not German are expected to acquire proficiency in German within three years, which allows to teach in German, to take part and successfully negotiate in university committees, and to complete self-governance tasks.

In addition to key professional qualifications the successful candidate should also possess leadership skills and a strong social skill set. In accordance with the policies for the advancement of women, experience in human resource management, policies for the advancement of women, and participating in gender mainstreaming projects are also a part of the relevant selection criteria.

The successful candidate is expected relocate to the Linz area.

The candidate’s application regarding his/her qualifications for the position will be considered under the following criteria:

- Knowledge of English
- Knowledge of German
- Professional experience in managing employees and/or research groups, a university department and/or research institution
- Experience in university self-administration
- Experience in human resource management and implementing policies for the advancement of women

4.1. Activities – Significance and Time Span

Within the subject area of the professorship, teaching and education are a main focus. Equally important are research activities and the active participation in the national and international research community. In addition, administrative tasks have to be fulfilled on an institute as well as on a university level.

The successful candidate will balance research, teaching and administrative tasks as followed; approximately 40% teaching, 40% research, and 20% for the completion of administrative tasks and management responsibilities. The successful candidate is also expected to actively and independently participate in administrative committees.

5. Legal Contingencies

Effective as of January 1, 2004, the structure of Austrian universities has been completely re-organized. They are independently financed on the basis of a three-year service level agreement with the Austrian government, have a global budget at their disposal, and are not subject to any directives by the Austrian Federal Ministry of Science and Research.

5.1. Terms of Employment

All terms of employment, including a university professorship, are subject to the Private Sector Employees Act. A work contract between the university and the appointed professor confirms the professor's appointment. The Salaried Employees Act and the collective agreement for university employees provide the legal framework for all related labor, social, and pension conditions. An evaluation of all teaching and research activities will be conducted after a 5-year period to assess the fulfillment of all target agreements.

5.2. Pension Regulations

5.2.1. Pension

A pension account at the Pension Insurance Company for Employees (PVA) provides the basis to calculate the amount of pension. All pension account holders are registered for annual partial credits during insurance periods in the amount of 1.78% of the annual contribution basis and these are capped at the maximum assessment basis. The sum of the partial credits is the total credits that are re-valued annually. The total credit divided by 14 equals the amount of gross monthly pension. For more information about the pension you receive directly from the state, please contact the PVA.

5.2.2. Company Pension Fund for University Professors

In compliance with the Universities Act 2002, a special pension scheme is provided for university professors and has been agreed upon in a Collective Agreement. The contribution payment made by the university is 10% for the set minimum salary as stated in the collective agreement. Voluntary salary payments agreed upon aside from the collective agreement minimum salary are not a part of the base calculation of the contribution payments.

6. Salary

The amount of the minimum salary for Group A 1 (Professorship) has been determined in the collective agreement for university employees and is a gross annual salary of 71.822,80 Euros per year (last update: 2019). Payment is allocated in 14 equal amounts, whereby two parts are special allocated payments.

The position as Professor for “Business Analytics and Technology Transformation” provides a provision (on a voluntary basis) to agree on a salary over the minimum salary set by the collective agreement.

After a positive evaluation every six years – 4 times in total – there will be an advance to the next pay grade in accordance to the salary bracket in collective agreement for job category A1.

7. Application Materials

Prospective applicants for the professorship position *Business Analytics and Technology Transformation* are requested to send the following application materials and requested documentation **in English** in electronic form to: bewerbung@jku.at. If documents cannot be sent in electronic format, they are to be sent in quintuplet copy and should arrive at the Rector’s office no later than one week after the end of the application deadline

7.1. General Information

- Application Form
- Letter of Intent (1 page)
- Tabular Curriculum Vitae
- Academic Diplomas (Doctorate, Post-Doctorate/Habilitation)

7.2. Research

- Proof of successful completion of a post-doctorate degree (*venia docendi*) in the field of Business Administration, Business Informatics or a related discipline, or a comparable, internationally recognized post-doctorate qualification
- H-Index, and number of citations according to Google Scholar (including date retrieved)
- List of publications, separated according to (1) Books, (2) Peer-Reviewed Journal Publications, (3) Peer-Reviewed Contributions to Conferences, (4) Other Publications. **Within each category, sorted (descending) according to self-assessed quality.** Publications with a direct link to Business Analytics are to be preceded by *BA*, and those with a direct link to Technology Transformation by *TT*. At the end of each entry of category (2), in square brackets, [Number of citations according to Google Scholar, Ranking according to VHB JOURQUAL3 or impact factor], and for those of category (3), [Conference Acceptance Rate, number of citations according to Google Scholar].
- List of the applicant’s five most important publications in Business Analytics and/or Technology Transformation as full-text (PDF)
- List of scientific/academic presentations and keynotes

- List of memberships in academic/scientific associations and editorial boards of relevant scientific journals
- List of acquired third party funding including the following information: role in the project (e.g., PI, Co-PI), funding institution, duration, volume (in the case of cooperative projects, total volume as well as share of own working group), number of employees in full-time equivalents (in the case of project lead), research output in the form of publications (divided into journal publications and peer-reviewed contributions to conferences, referencing the respective publication of the list of publications; funding institution is indicated in the acknowledgements).

Note: Formal power of signature for a project as head of department does not count as project lead.

- List of research stays/visits at universities and other research institutions (university, duration in months) and the respective research output
- Research concept with planned research and publication projects in the fields of Business Analytics and Technology Transformation (1 page)

7.3. Teaching

- List of courses taught at Austrian universities and at universities abroad as well as other institutions in the tertiary educational sector (please include name of institution(s), course title, course type, number of participants, employed media, and language)
- List of current teaching evaluation results for three selected courses
- Syllabi of selected own courses in the area of this opening that are considered to be of particular high quality and/or cutting-edge
- List of supervised Master's/Diploma degree theses and dissertations from the past five years (please indicate author, topic, year, supervision or co-supervision)
- A teaching concept in Business Analytics and Technology Transformation (1 page)

7.4. Miscellaneous

- Experience in managing a university institute and research groups
- Experience in university self-administration (e.g., participation in university committees)
- Experience in human resource management and policies to support the advancement of women

8. Information

If you have any questions in regard to the job profile, please contact Univ.-Prof.ⁱⁿ Sophie Parragh, PhD (+43 (732) 2468 5500, sophie.parragh@jku.at) or Univ.-Prof. Dr. Michael Schrefl (+43 (732) 2468 4271, michael.schrefl@jku.at)