

PROFESSORSHIP FOR ANALYTICAL CHEMISTRY



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. Academic degree programs in the field of Human Medicine were added in 2014. During the university's fifty-year history, the JKU's manifold achievements and merits in research and education have produced high-quality work that is well-respected in Austria and abroad. 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 education 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 personal and public life.

As the largest institution of research and education in Upper Austria the Johannes Kepler University plays a key role in the continual growth and advancement of Upper Austria as a dynamic economic region. The JKU is also actively involved in competence centers, developing spin-off programs designed to create and support new companies. The JKU's mission statement defines and outlines the university's founding principles as well as its future development and strategic concept.

The university's campus-style layout provides easy access to the three faculties, the:

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

situated on 350,000 m² located north of the city of Linz, whereas the

- Faculty of Medicine

is centrally located on the MED Campus in Linz.

2. The Faculty of Engineering and Natural Sciences

The Faculty of Engineering and Natural Sciences (TNF) is comprised of 58 institutes actively conducting basic and applied research at the following five departments:

- Chemistry and Polymer Engineering
- Computer Science
- Mathematics
- Mechatronics
- Physics

Additional detailed information is available at: <https://www.jku.at/technisch-naturwissenschaftliche-fakultaet/>.

3. The Academic Subject Area of “Chemistry and Polymer Engineering”

The academic subject area of "Chemistry and Polymer Engineering" (<https://www.jku.at/technisch-naturwissenschaftliche-fakultaet/organisation/fachbereiche/chemie-und-kunststofftechnik/>) at the TNF currently consists of the following institutes:

- Institute for Analytical Chemistry
 - Department of Analytical Chemistry
 - Department of General Chemistry
- Institute of Inorganic Chemistry - Center of Nanobionics and Photochemical Sciences (CNPS)
- Institute for Chemistry of Polymers
- Institute for Chemical Technology of Inorganic Materials
- Institute for Chemical Technology of Organic Materials
- Institute for Catalysis
- Institute for Organic Chemistry
- Institute for Physical Chemistry
- Institute for Polymer Extrusion and Compounding
- Institute for Polymeric Materials and Testing
- Institute for Polymer Injection Moulding and Process Automation
- Institute for Polymer Product Engineering
- Institute of Polymer Science
- Institute for Process Engineering
- Linz Institute for Organic Solar Cells (LIOS)

The high-quality Bachelor’s and Master’s degree programs in the field of chemistry are offered primarily in English and consistently rank high on a global scale. The academic subject area of Chemistry and Polymer Engineering at the JKU has a long track record of excellence in conducting outstanding, internationally recognized base-knowledge research and actively collaborates with strong, successful industrial companies located in the region.

4. General Requirements for the Professorship for “Analytical Chemistry”

The successful candidate will represent the subject area of analytical chemistry in research and teaching and support its advancement at the JKU. Applicants for the position should be highly qualified in the field of organic analytical chemistry and demonstrate an internationally competitive scientific background (habilitation qualification - or a research qualification comparable to a habilitation qualification - and

teaching experience are required) and must be capable of representing the field of analytical chemistry in its full depth and breadth in academic teaching. The successful candidate is expected to position the interdisciplinary subject area in line with the university's strategy and contribute actively to the cross-faculty priorities of "Sustainable Development: Responsible Technologies & Management (JKUsustain)" and "Digital Transformation".

4.1. Research

The successful candidate is expected to conduct an internationally high level of research.

Potential research topics include: clinical and bio-analytics, environmental analysis, analyzing natural and synthetic macromolecules and polymers.

The successful candidate should pursue collaboration efforts with institutes in the subject area at the JKU as well as at the TN Faculty, at the Linz Institute of Technology (LIT), and with external partners in both the international academic sector and local business community. Affiliations and mutual interests in line with preclinical research currently being conducted at the recently established JKU Faculty of Medicine (<https://www.jku.at/medizinische-fakultaet/>) are desired, but not required.

The candidate is expected to responsibly participate in further developing and growing the JKU's research infrastructure. The professorship position is characterized by a methodological focus in organic analytical chemistry.

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

- Research experience at scientific/academic institutes and/or industrial research institutions in Austria and/or abroad
- Prior successful research in basic research and in cooperation with industrial companies and/or large research centres
- Management, acquisition and participation in research projects
- Quality and quantity of publications in corresponding, peer-reviewed journals and patents in the research area relevant to the professorship position
- Scientific/academic lecture activities (presentations as an invited speaker at conferences, symposia, etc.)
- Submission of a five-page maximum research concept as the potential professor of Analytical Chemistry at the JKU referencing your prior work as well as the main focus and existing research infrastructure at the JKU

4.2. Teaching

The JKU is committed to research-led teaching. As part of the professorship position for Analytical Chemistry, the current curricula includes the following courses offered primarily in English:

- Chemistry and Chemical Technology, Bachelor's and Master's programs
- Management in Chemical Technologies, Master's degree program
- Polymer Chemistry, Master's degree program
- Biological Chemistry, Bachelor's and Master's degree programs
- Molecular Biosciences, Bachelor's degree program
- Molecular Biology, Master's degree program
- Fundamentals of Natural Sciences for Technology (NaSciTec), Bachelor's degree program
- Polymer Engineering, Bachelor's degree program
- Human Medicine, Bachelor's degree program

Detailed information about the academic degree programs and courses offered at the JKU are available in the course catalog: <https://studienhandbuch.jku.at>.

The successful candidate is also expected to be willing to hold university-level courses for other departments and actively take part in creating and implementing existing and new academic degree programs.

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

- Experience as an educator at universities and/or other tertiary level institutions of education
- Ability and willingness to hold university-level courses representing the full range of analytical chemistry
- Evaluation results in the field of teaching
- Experience supervising Diploma degree/Master's theses and dissertations
- Participation in training and continual education courses in the field of university didactics
- Submission of a teaching and educational concept for the subject area of "Analytical Chemistry" (maximum three pages)

4.3. Additional Requirements

The successful candidate is expected to be willing to cooperate with regional and international research and educational institutions in the tertiary sector as well as with industrial companies. Collaborative efforts should also include acquiring external funding.

Independent academic administration is expected, including management skills to head a department or, if applicable, an institute, as well as carrying out administrative responsibilities and participating in committees. In addition to key professional qualifications and to ensure the department can be managed proficiently, the successful candidate should possess a strong professional and personal social skill set.

The following criteria in particular are used to assess qualifications in these areas:

- Prior research experience collaborating with partners at other institutions in Austria and abroad
- Qualifications and experience to manage a department, research projects, etc.
- Qualification and experience in cooperative leadership, human resource development, supporting policies for the advancement of women, as well as participation in gender mainstreaming projects

4.4. Activities – Significance and Time Span

The successful candidate will balance research, teaching and administrative activities as follows: approximately 40% teaching, 40% research, and 20% administrative activities and management responsibilities. The successful candidate is also expected to actively and independently participate in administrative committees at the university.

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 73,438.40 Euros per year (last update: 2020). Payment is allocated in 14 equal amounts, whereby two parts are special allocated payments.

The position as Professor for “Analytical Chemistry” 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 –four times maximum 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 Analytical Chemistry are requested to send the following application and requested documentation in electronic form to: application@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 habilitation qualification, or a comparable academic qualification
- List of publications, including five to eight publications you consider most significant (full text)
- Scientific/academic presentations (list of presentations as an invited speaker)

- International experience, demonstrated by extended stays abroad, collaboration efforts with international universities and research institutions, as well as active involvement in international research
- Corresponding professional experience relevant to the professorship position at industrial companies and/or at international organisations
- Proof of long-term cooperation with international universities and research institutions and active involvement in international research
- Proof of acquired research funding; managing and organizing research projects, or corresponding participation in these projects (position, project volume, client and/or funding agency, duration, project manager, and number of full-time employees for project management)
- Submission of a maximum five-page research concept for a potential position as professor of analytical chemistry at the JKU with reference to your previous work

7.3. Teaching

- A list of all courses taught, including course evaluations
- A list of continual education courses and activities in higher education didactics, if available
- A list of supervised Diploma degree theses, Master's theses and doctoral dissertations
- Submit a maximum three-page teaching concept in the subject area of "Analytical Chemistry"

7.4. Miscellaneous

- A list of prior collaborative projects with partners at universities in Austria and abroad, research organisations, and industrial companies
- Qualification and experience managing an academic institute or department, research projects etc.
- Qualification and experience in cooperative management, human resource development, supporting policies for the advancement of women, as well as participation in gender mainstreaming projects

8. Information

If you have any questions about the job description, please contact Univ.-Prof. DI Dr. Christian Paulik (+43 (732) 2468 9001, christian.paulik@jku.at).