

IT:U – Kommunikations- und Informationsplattform

Verlautbarungsteil

Jahrgang 2025

Ausgegeben am 21. Jänner 2025

Nr. 0004 Ausschreibung: Ausschreibung von Professuren

Ausschreibung

der Interdisciplinary Transformation University Austria von Professuren

Die Interdisciplinary Transformation University Austria – IT:U schreibt die Besetzung von Professuren in den folgenden Themenfeldern entsprechend der Beilagen aus:

- „Cybersecurity, Quantum Communication and Cryptography“
- „Transforming Art, Science and Society“
- „Intersection of Economics, Finance, Law, or Policy with Computing“

Die Ausschreibungstexte sind im Sinn einer breit formulierten und missionsorientierten Ausschreibung zu verstehen. Insgesamt wird die Berufung von bis zu sechs Professor:innen (Tenured und Tenure Track) zum Dienstantrittsdatum 1. Oktober 2025 angestrebt.

Entsprechend den im Bundesgesetz über das Institute of Digital Sciences Austria (Interdisciplinary Transformation University) festgelegten Grundsätzen betreibt die IT:U eine antidiskriminatorische Anstellungspolitik und legt Wert auf Chancengleichheit, Diversität, Inklusion, Gleichstellung der Geschlechter und Frauenförderung. Die IT:U strebt eine Erhöhung des Frauenanteils beim wissenschaftlichen Personal an und lädt daher qualifizierte Frauen ausdrücklich zur Bewerbung ein. Bei gleicher Qualifikation werden Frauen vorrangig aufgenommen.

Die Bewerbungsfrist endet am 28. Februar 2025.

3 Beilagen

Die Gründungspräsidentin:
Stefanie Lindstaedt

IT:U – Communication and information platform

Promulgation Section

Volume 2025

Issued on January 21, 2025

Nr. 0004 Announcement: Call for Applications: Professorships

Call for applications

Professorships at the Interdisciplinary Transformation University Austria

The Interdisciplinary Transformation University Austria – IT:U announces the opening of professorships in the following fields, as outlined in the annexes:

- „Cybersecurity, Quantum Communication and Cryptography“
- „Transforming Art, Science and Society“
- „Intersection of Economics, Finance, Law, or Policy with Computing“

The job postings are intended to be understood as broadly formulated and mission-oriented. In total, the appointment of up to six professors (tenured and tenure-track) is planned, with a start date of October 1, 2025.

In accordance with the principles established in the Federal Act on the Institute of Digital Sciences Austria (Interdisciplinary Transformation University), IT:U practices an anti-discriminatory hiring policy and places a strong emphasis on equal opportunities, diversity, inclusion, gender equality, and the promotion of women. IT:U aims to increase the proportion of women in its academic staff and therefore explicitly encourages qualified women to apply. In cases of equal qualifications, preference will be given to women.

The application deadline is February 28, 2025.

3 Annexes

The Founding President:
Stefanie Lindstaedt



Published: Tuesday, 21st, January, 2025
Application Deadline: Friday, February 28th, 2025
Fulltime Position, target start date: October 1st, 2025
IT:U, Linz, Austria

IT:U – Interdisciplinary Transformation University in Linz, Austria offers
up to two Tenure-track and Tenured Professorships in

- **Cybersecurity**
- **Quantum Communication and Cryptography**

Full-time appointments at tenure-track and tenured professorial levels at IT:U depending on the successful candidate's qualifications.

ABOUT IT:U

IT:U is Austria's emerging public university dedicated to understanding, driving, and evaluating digital transformation for the benefit of our societies, our economy, and our environment. A new kind of science holds the key to sustainable solutions for the complex, multifaceted challenges we face today: **computational methods and interdisciplinary research transform how we do science**, how we design systems, and how we contribute to solutions of global challenges.

At IT:U we research, teach, and learn things that matter to you and to the world. IT:U prioritizes inter- and transdisciplinary research, emphasizing mission-based study programs and project-based learning. IT:U is dedicated to developing highly innovative learning technology for support and scalability. By overcoming disciplinary boundaries, IT:U confronts the conflicting realities of today and cultivates the skills to navigate an increasingly digital world. If you are inspired to build this entirely new university with us, then you are the one we are looking for.

IT:U professors are excited about the opportunities that computational methods and especially artificial intelligence create within and across disciplines. Their work transcends established methodological boundaries and enriches a whole spectrum of scientific fields. They are open to forward-thinking approaches to learning and the co-creation of knowledge. IT:U seeks to increase the percentage of women in such interdisciplinary scientific communities. **We specifically encourage qualified women to apply.** When in doubt: apply!

IT:U provides an environment in which you can grow:

- Independent research groups: Each professor will create their own research group independent of whether the professor is tenure-track or tenured



- Low student/teacher ratio: There will be no large lectures, instead you will be teaching within projects and small groups
- Teaching support: Learning professionals will support your teaching actively
- Tenure-track is modelled according to US standards
- Completely English-speaking environment
- Highly service-oriented administration

IT:U students will predominantly learn in projects. As a professor you will collaborate closely with project coaches, lecturers, and lab experts to build skills, foster problem-solving abilities, and ignite passion. This face-to-face work in projects will be complemented by online sessions before, between, and after the project to support the learning process. While this style of teaching demands effort, we find it to be exceptionally rewarding. And our learning professionals are committed to support you. IT:U offers doctoral schools since fall 2024. Master's programs will be introduced in fall 2025.

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WE ARE LOOKING FOR YOU

Successful candidates are experienced researchers, enthusiastic for project-based teaching, willing to take risks, looking beyond traditional disciplines, and dedicated to making a difference in the world.

All applicants should have:

- a doctoral degree in any relevant field as described in the focus fields of this call
- excellent publication track record of authoring and co-authoring peer-reviewed publications in relevant high-quality venues
- strong teaching competencies, ideally relevant to project-based teaching

Applicants for tenured positions should have:

- experience in building outstanding research groups
- a strong track record in acquiring funding
- demonstrated strong leadership
- significant international research network

In addition, any activities to show your commitment to disseminating your research in different communities, such as the creation of study programs, societal initiatives, hackathons, entrepreneurial experiences, international engagements, experiences in working with industry or NGOs, etc., will be greatly appreciated.



Faculty duties will include conducting original research, building a research group, and contributing to their fields through publications. Professors at IT:U actively engage in mentoring and guiding students. They teach in project-based learning settings, contributing to hands-on educational experiences. Simultaneously, they play a vital role in shaping the academic work and cultures of IT:U's research communities.

The working language at IT:U is English, fostering a globally inclusive learning environment; therefore, candidates must be fluent in English.

IT:U believes the intellectual, cultural, and social diversity of our faculty, staff, and students is vitally important to the distinction and excellence of our academic and research programs. We seek candidates who support our institutional commitment to ensuring that IT:U is inclusive, equitable, and diverse.

OUR OFFER

- Competitive salaries starting from €85.000 (tenure track) and €100.000 (tenured professor) per year as base payment. Overpayment is envisaged according to experience.
- Fully funded PhD students and PostDoc positions
- Full integration into Austria's robust public health system, boasting outstanding clinical facilities and comprehensive healthcare coverage for you and your family.
- Dual career support or dual hiring if applicable
- Relocation services incl. paid temporary housing for the first 6 months (relocation to the Greater area of Linz, Austria, is expected)
- Relocation tax allowance of 30% on income from scientific activities is possible for a period of 5 years (requirements must be examined)
- Perks and benefits like free public transportation (e.g. KlimaTicket).

Welcome services: As part of our commitment to supporting the well-being of our employees, we will assist you in securing appropriate facilities such as day nurseries, kindergartens, playgroups, and schools for the seamless integration of your family into our community.

At IT:U, we believe in fostering a diverse and inclusive workplace. We are committed to gender equality, creating an environment where everyone, regardless of gender, has equal opportunities for growth and success. Additionally, we embrace individuals with diverse abilities and provide a supportive and accessible workplace for people of all backgrounds, including those with disabilities.

PLEASE APPLY

Applications must include

- cover letter and motivation for application (1-2 pages)
- curriculum vitae including a list of publications



- three referees – names and addresses of three or more individuals who are willing to provide a letter of recommendation for you. Please note: We will only contact these referees if you make the shortlist and are invited to the hearings.
- research statement describing your future research program and especially illustrating your interdisciplinary approaches (2-3 pages)
- teaching & mentoring statement with a specific focus on how you envision to teach within projects (2-3 pages)

To apply, please fill in the IT:U application form and upload your files at <https://it-u.at/careers/>

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Review of applications will commence immediately after

INTERVIEWS for the positions will be held in person starting with May 2025.

Candidates are asked to be available during this timeframe. The exact date will be communicated as soon as the shortlist has been finalized (first half of April 2025).

Target start date: October 1st, 2025.

If you have questions or require support, feel free to contact apply@it-u.at.

Univ.Prof. Dipl.Inf. Dr. Stefanie Lindstaedt

Founding President



Cybersecurity, Quantum Communication and Quantum Cryptography:

We invite applications for up to two Tenure-Track or Full Professor positions in cutting-edge areas of **Cybersecurity, Quantum Communication and Quantum Cryptography**. The successful candidates will lead interdisciplinary research, foster industry-academic partnerships, and contribute to teaching in areas critical to technological advancement and security.

To achieve this degree of interdisciplinary and transformational research, we welcome applicants from a wide range of academic backgrounds that are connected to or relevant to Cybersecurity, Quantum Communication and Quantum Cryptography.

Importantly, we aim to strengthen the diversity of perspectives within the field which will recognize the plurality of our society. As such, we particularly encourage researchers with typically under-represented backgrounds to apply at IT:U, e.g., in terms of gender, (dis)ability, social environment, cultural or ethnic heritage, etc.

In particular, candidates should be able to situate themselves (or go beyond) in one or more of the following areas:

- **Cryptography and Cryptographic Protocols:** Designing and analyzing cryptographic algorithms to ensure data confidentiality and integrity.
- **Privacy and Data Protection:** Research on privacy-preserving technologies, GDPR-compliant systems, and secure data sharing frameworks. Developing tools and techniques to protect user privacy in digital interactions.
- **Useable Security and Human-Centered Design:** Exploring methods to enhance the usability of security systems, ensuring that security measures are intuitive and effective for end-users.
- **Cybersecurity Policy and Risk Management:** Research on policy frameworks, risk assessments, and strategies for managing cybersecurity governance.
- **Network and Cyber-Physical Systems Security:** Developing robust protocols and architectures to protect networked systems from cyber threats. Securing integrated systems where computational and physical processes interact, such as industrial control systems and IoT devices.
- **Cloud and IoT Security:** Securing cloud infrastructure and Internet of Things (IoT) ecosystems, including vulnerability assessment and mitigation strategies.



- **Digital Forensics and Incident Response:** Investigating cyber incidents and developing methodologies for effective response and recovery.
- **Artificial Intelligence in Cybersecurity:** Leveraging machine learning and AI techniques to detect and mitigate cyber threats.
- **Cryptography and Post-Quantum Security:** Designing cryptographic algorithms resilient against quantum computing threats, ensuring the security of information systems in the advent of quantum computers.
- **Secure Quantum Communication Systems:** Implementing quantum key distribution and other quantum-based security solutions for robust communication networks.
- **Quantum Networks, Quantum Key Distribution (QKD) and Quantum Network Architectures:** Developing the infrastructure for quantum networks, developing and implementing protocols for secure communication using quantum mechanics, including entanglement-based QKD and the establishment of quantum networks.
- **Quantum Information Theory and Applications:** Advancing the field of quantum information science by developing theoretical frameworks and practical methodologies that enhance quantum computing, communication, and cryptography. This includes creating efficient quantum algorithms, optimizing quantum error correction techniques, and exploring novel applications of quantum information in emerging technologies.



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IT:U – Interdisciplinary Transformation University in Linz, Austria offers
up to **two Tenure-track and Tenured Professorships** at the
Intersection of Art, Design, Digital Technology and Society

Full-time appointments at tenure-track and tenured professorial levels at IT:U,
depending on the successful candidate's qualifications.

ABOUT IT:U

IT:U is Austria's emerging public university dedicated to understanding, driving, and evaluating digital transformation for the benefit of our societies, our economy, and our environment.

Bridging art and design with emerging computational technologies holds the key to sustainable solutions for the complex and multifaceted challenges of tomorrow. By merging creative and technological expertise with interdisciplinary research, we unlock new ways of questioning and reimagining how systems and solutions are designed in innovative, human-centered, and poetic ways. This approach thrives on challenging conventional norms and stimulating critical discourse, ensuring impactful solutions that push boundaries and drive meaningful progress.

At IT:U we research, teach, and learn things that matter to you and to the world. IT:U prioritizes inter- and transdisciplinary research, emphasizing mission-based study programs and project-based learning. IT:U is dedicated to developing highly innovative learning technology for support and scalability. By overcoming disciplinary boundaries, IT:U confronts the conflicting realities of today and cultivates the skills to navigate an increasingly digital world. If you are inspired to build this entirely new university with us, then you are the one we are looking for.

IT:U professors are excited about the opportunities that computational methods and especially artificial intelligence create within and across disciplines. Their work transcends established methodological boundaries and enriches a whole spectrum of scientific fields. They are open to forward-thinking approaches to learning and the co-creation of knowledge.

IT:U believes the intellectual, cultural, and social diversity of our faculty, staff, and students is vitally important to the distinction and excellence of our academic and research programs. We seek candidates who support our institutional commitment to ensuring that IT:U is inclusive, equitable, and diverse.



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- Independent research groups: Each professor will create their own research group independent of whether the professor is tenure-track or tenured
- Low student/teacher ratio: There will be no large lectures, instead you will be teaching within projects, studios and small groups
- Teaching support: Learning professionals will support your teaching actively
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WE ARE LOOKING FOR YOU

Successful candidates will have a strong practice-oriented research background, an international presence in the arts, design and digital technology community, enthusiasm for project-based teaching, a willingness to take risks, a desire to look beyond traditional disciplines, and dedication to making a difference in the world.

All applicants should have:

- a doctoral degree – or equivalent - in any relevant field as described in the focus fields of this call
- excellent publication/exhibition track record of authoring and co-authoring publications or showing their work in relevant high-quality venues
- strong teaching competencies, ideally relevant to project-based teaching

Applicants for tenured positions should have

- experience in building outstanding research groups or productive studios
- a strong track record in acquiring funding
- demonstrated strong leadership
- significant international network

In addition, any activities to show your commitment to disseminating your research in different communities, such as the creation of study programs, societal initiatives, hackathons, entrepreneurial experiences, experiences in working with industry or NGOs, etc., will be greatly appreciated.



Faculty duties will include conducting original research, building a research group/studio, and contributing to their fields through publications, art and design prototypes, exhibitions and public engagement. Professors at IT:U actively engage in mentoring and guiding students. They teach in project-based learning settings, contributing to hands-on educational experiences. Simultaneously, they play a vital role in shaping the academic work and cultures of IT:U's research communities.

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PLEASE APPLY

Applications must include

- cover letter and motivation for application (1-2 pages)
- curriculum vitae including a list of publications, the five most relevant artworks or design projects, exhibitions or other equivalent examples of proven excellence in your field.
- three referees – names and addresses of three or more individuals who are willing to provide a letter of recommendation for you. Please note: We will only contact these referees if you make the shortlist and are invited to the hearings.



- research statement describing your future research program and especially illustrating your interdisciplinary approaches (2-3 pages)
- teaching & mentoring statement with a specific focus on how you envision to teach within projects/studio settings (2-3 pages)

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Transforming Art, Science and Society

How to transform art, science and society and what role will digital technologies play in this transformation? We are looking for applicants who want to share and further develop their own unique perspective upon this question by drawing from their own practice and research along the Krebs Circle of art, design, science, and engineering.

We welcome applicants from a wide range of academic or practice-based backgrounds. Importantly, we aim to strengthen the diversity of positionalities from which transformation of art, science and society is being conducted to ensure a perspective that recognizes the plurality of society. As such, we particularly encourage people to apply that bring typically under-represented backgrounds such as in terms of gender, (dis)ability or socio-cultural backgrounds to the table.

WE ARE LOOKING FOR YOU

We welcome outstanding applicants with research and teaching experience who have demonstrated impact in their field and its intersection to other disciplines. The successful candidates will join a dynamic academic environment to lead research, foster collaboration, and contribute to teaching in fields critical to the future of digital transformation.

We are looking for candidates that are particularly interested in one or more of the questions below and want to further develop them with us at IT:U:

Designing Sensual AI – How will a wide variety of complex human experiences (from sensory to affective perception) be represented in and transformed by future AI systems? Such experiences include both, experiences at any given moment as well as building on deeply unique recollections of the past and visions of the future. How will we create AI that is designed to engage with or simulate sensory experience, as well as emotions or feelings? And what if we do – and what if we don't. *We are particularly interested in the development of multi-sensory or hyper-sensory AI, ranging from work on novel sensing technologies to speculative design.*

More-than-human Transformation – How will we be able to explore more-than-human experiences through digital systems? How could we develop systems that understand, integrate and transcend human capacities and include non-human organisms, at a wide range of scale – from fungi, plants and animals to whole ecosystems or even at the planetary scale. *We are particularly interested in work that decenters the human and finds new ways to negotiate a future society that is sustainable for truly all beings.*



Speculative Innovation – How will we explore (and design) potential futures, alternative realities and new solutions that today seem far-fetched when we employ the new digital tools that AI research pushes online by the minute? How will the design process be redrawn, creativity constructed, and the current canon of design methods and strategies (including design thinking, art thinking, participatory design) be reshaped? *We are particularly interested in applicants that have both a research and practice record with a healthy appetite to reshape the profession.*

Next Narratives, Next Shapes – How will AI and emerging technologies reshape how we design in physical and virtual spaces, while transforming the way we create and experience narratives? How can computational technologies help us craft stories that go beyond immersion to become fully interactive, responding dynamically to human presence and movement? What new forms and possibilities arise when kinetic design merges with storytelling, enabling environments and objects to adapt and come alive through motion and interaction? *We are particularly intrigued by the potential of AI, XR, robotics, spatial design, and kinetic systems to redefine storytelling and spatial experiences, forging hybrid realities that push the boundaries of creativity, connection, and meaning.*



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**Intersection of Economics, Finance, Law, or Policy with
Computing**

Full-time appointments at tenure-track and tenured professorial levels at IT:U depending on the successful candidate's qualifications. One of the positions is affiliated with both the IT:U and the Complexity Science Hub Vienna.

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Univ.Prof. Dipl.Inf. Dr. Stefanie Lindstaedt

Founding President



Intersection of Economics, Finance, Law, or Policy with Computing

Digital transformation is reshaping economies, financial systems, and legal frameworks, offering unprecedented opportunities and challenges. In economics, digital technologies are driving global transformations, from the green transition to structural shifts in labor markets and value chains, requiring novel approaches to resilience and human capital development. Computational Methods and complexity science provide powerful tools to understand these dynamic changes and their global interconnectedness. In finance, digital innovation is revolutionizing markets through fintech, cryptocurrencies, and ESG investing, while raising questions about data transparency and systemic risk. Similarly, in law and policy, digitization and AI are transforming legal professions and governance, necessitating new frameworks for regulation, privacy, and digital service delivery.

By bridging traditional disciplines with computer science, complexity science, and AI, we can better address these critical challenges and shape impactful solutions for the future.

WE ARE LOOKING FOR YOU

As applicants for a Professorship, we welcome outstanding researchers with excellent research and teaching experience who have demonstrated impact in innovative areas of the relevant fields. The successful candidates will join a dynamic academic environment to lead research, foster collaboration, and contribute to teaching in fields critical to the future of economics, finance, law and policy with technological advancement.

The most critical attribute a future Professor will bring is a collaborative, interdisciplinary approach to academia, and the ambition to create real-life impact at the chosen intersection. Connecting communities and debates in computational and complexity sciences with economics, finance, law, policy and related social sciences requires interdisciplinarity. Methodologically, it requires for example, bridging the divide between complexity economics and traditional economics, combining and being knowledgeable in methods from both fields (e.g., network science and econometrics/causal analysis).

Candidates can come from a wide range of academic backgrounds that are connected to Computational Economics, Finance, Law or Policy such as for example (this is a non-exhaustive list):

Computational Economics

- Global transformations and challenges. Examples are the green transition or the future of work.
- Global value chains / supply chain networks and economies' resilience to shocks
- Complexity approaches to human capital, analyzing task and skill profiles of workers to understand career and schooling trajectories
- Structural transformation of economies and diversification paths of regional and national economies.



- Globalization: how do local economies connect to each other through migration, foreign direct investment and global value chains?

Computational Finance

- Fintech and innovation in financial markets.
- Financial markets and the green transition. How are new data on carbon footprints and social impact of companies impacting on investment strategies of individual and institutional investors (ESG)? What pitfalls and opportunities arise from this? How can they help support societal goals?
- Crypto currencies. Crypto currencies have given rise to new, digital financial market institutions. The blockchain technology that supports these new currencies. contains large amounts of detailed information that sheds light on the workings of digital markets.
- Econophysics and related models to analyze catastrophic events and financial markets forecasting.
- Complexity approaches to studying financial contagion in large-scale supply-chain networks.

Computational Law & Policy

- Regulation of AI: Given rapid developments in the field of AI and its regulation around the world, how can computational methods help reinterpret the regulation of AI?
- Empirical Legal Research with computational methods: how can we interpret how and why citizens follow rules, norms and laws at scale using computational methods?
- Computational Policy Analysis: Are legal frameworks or policies achieving their desired goals?
- Digital Government: how can governments leverage new digital technologies to deliver services to their citizens?
- Regulation and data ownership: balancing new online/digital business models with privacy of individuals.
- Leveraging computational and complexity sciences to develop new policy frameworks. Multiple transformations and global challenges (digitization, migration, green transition) have led to policy responses across all levels of government, from the local to the global. Understanding these challenges requires new policy frameworks that can ingest large amounts of data but also connect to the realities that governments have to face.
- Experience in policy-related projects and an understanding of dominant debates on industrial and other types of policy making to go from policy analysis to policy implementation and ensure impact on public policy.