

The Institute of Information Technology at the Alpen-Adria-Universität Klagenfurt invites applications for:



**Doctoral Student Positions (100% employment; all genders welcome)**  
within the Christian Doppler (CD) Pilot Laboratory **ATHENA**  
“**Adaptive Streaming over HTTP and Emerging Networked Multimedia Services**”

at the Faculty of Technical Sciences. The monthly salary for these positions is according to the standard salaries of the Austrian collective agreement, min. € 3.058,60 pre-tax (14x yearly) (Uni-KV: B1, <http://www.aau.at/en/uni-kv>). The expected start date of employment is **April 1st, 2023**.

**ATHENA** stands for Adaptive Streaming over HTTP and Emerging Networked Multimedia Services and has been jointly proposed as a CD Laboratory (<https://www.cdg.ac.at/>) by the **Institute of Information Technology** (ITEC; <http://itec.aau.at>) at Alpen-Adria-Universität Klagenfurt (AAU) and **Bitmovin** GmbH (<https://bitmovin.com>) to address current and future research and deployment challenges of HTTP Adaptive Streaming (HAS) and emerging streaming methods.

AAU (ITEC) has been working on adaptive video streaming for more than a decade, has a proven record of successful research projects and publications in the field, and has been actively contributing to MPEG standardization for many years, including MPEG-DASH; Bitmovin is a video streaming software company founded by ITEC researchers in 2013 and has developed highly successful, global R&D and sales activities and a world-wide customer base since then.

The aim of **ATHENA** CD Lab is to research and develop novel paradigms, approaches, (prototype) tools and evaluation results for the areas (1) **multimedia content provisioning** (i.e., video coding), (2) **content delivery** (i.e., multimedia networking) and (3) **content consumption** (i.e., HAS player aspects) in the media delivery chain as well as for (4) **end-to-end aspects**, with a focus on, but not being limited to, HTTP Adaptive Streaming (HAS). The new approaches and insights enable Bitmovin to build innovative applications and services to account for the steadily increasing and changing multimedia traffic on the Internet. In addition, according to the CD Lab model of “application-oriented basic research,” the goal is to publish the results in international, high-quality professional journals and conference proceedings.

**Your profile:**

- Master or diploma degree of Technical Science in the field of Computer Science or Electrical Engineering, completed at a domestic or foreign university (with good final degrees);
- Interest and experience in **one or more** of the above-identified areas, namely (1) **multimedia content provisioning (i.e., video coding with a special focus on using**

**machine learning**), ~~(2) content delivery (i.e., multimedia networking)~~ and **(3) content consumption (i.e., HAS player aspects)** in the media delivery chain as well as **(2) end-to-end aspects (i.e., with a special focus video analytics and data science)**, with a focus on, but not being limited to, HTTP Adaptive Streaming (**HAS**);

- Excellent English skills, both in written and oral form.

**Desirable qualifications include:**

- Excellent programming skills, especially in Python, C, C++, Java, or/and JavaScript;
- Relevant international and practical work experience;
- Social and communicative competencies and ability to work in a team;
- Experience with university teaching and research activities.

The working language and the research program are in English. There is no need to learn German for this position unless the applicant wants to participate in undergraduate teaching, which is optional.

**Our offer:**

The employment contract is concluded for the position of Project Assistant, and the monthly salary for these positions is according to the standard salaries of the Austrian collective agreement, min. € 3.058,60 pre-tax (14x yearly) (Uni-KV: B1, <http://www.aau.at/en/uni-kv>).

**The University of Klagenfurt also offers:**

- Personal and professional advanced training courses, management and career coaching
- Numerous attractive additional benefits, see also <https://jobs.aau.at/en/the-university-as-employer/>
- Diversity- and family-friendly university culture
- The opportunity to live and work in the attractive Alps-Adriatic region with a wide range of leisure activities in the spheres of culture, nature, and sports

**The application:**

If you are interested in this position, please apply in German or English by providing the following documents:

- Letter of motivation
- Curriculum vitae
- Copies of degree certificates and confirmations
- Proof of all completed higher education programs
- Concept of a (potential) dissertation project (one-page maximum)

The University of Klagenfurt is aware of its social responsibility even during COVID-19. This is reflected by the high proportion of fully immunized persons among students and employees. For

this reason, a continued willingness to be vaccinated in connection with COVID-19 is expected upon entering university employment.

The University of Klagenfurt aims to increase the proportion of women and explicitly invites qualified women to apply for the position. Where the qualification is equivalent, women will receive preferential consideration.

People with disabilities or chronic diseases, who fulfill the requirements, are particularly encouraged to apply.

Travel and accommodation costs incurred during the application process will not be refunded.

**Submit all relevant documents, including copies of all school certificates and performance records to <https://bitmovin.com/careers/doctoral-student-positions-athena-6311370002/>** (note: we utilize Bitmovin's recruitment infrastructure for processing applications, but the position will be at the University of Klagenfurt). **Application deadline: October 1st, 2022. December 1st, 2022.**

Contact information:

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*Klagenfurt, situated at the beautiful Lake Wörthersee – one of the largest and warmest alpine lakes in Europe – has nearly 100.000 inhabitants. Being a small city with a Renaissance-style city center reflecting 800 years of history and with Italian influence, Klagenfurt is a pleasant place to live and work. The university is located only about 1.5 kilometers east of Lake Wörthersee and about 3 kilometers west of the city center.*

