

# BSc/MSc/PhD Student Jobs

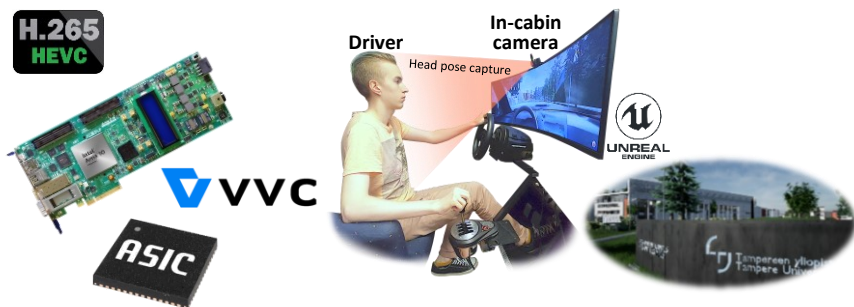
**Ultra Video Group is looking for several BSc, MSc, and PhD students to part or full-time positions in the leading academic video group in Finland.**

We are a research group in the unit of [Computing Sciences](#) at [Tampere University](#) and we have over 20-year experience in conducting pioneering research on media processing systems in a close collaboration with industry. Our main research interest lies in tailored video coding, processing, and streaming solutions on various platforms ranging from low-power embedded devices to edge cloud environments.

## Job description

We seek to consolidate our team with several new undergraduate or graduate students. Each position will be tailored to the applicant's skills, background, and level of studies. Flexible start date and working time provide the applicant with unique opportunity to boost studies with practical research experience and become a young professional in the field.

Example topics	Technology involved
Volumetric video coding for industrial metaverse applications	C/C++, Python, Machine Learning
AI-based volumetric capture for metaverse or video game technologies	C/C++, Python, Machine Learning
AI-powered video coding tools for human and machine vision	C/C++, OpenCV, Machine Learning
Software video encoders for live video streaming	C/C++
Video codec acceleration on FPGA and system-on-chip (SoC)	C/C++, VHDL, Verilog, high-level synthesis
Hervanta digital twin creation in Unreal Engine	C/C++, C#, Python, Unreal Engine, Unity
Traffic simulator for self-driving cars	C/C++, C#, Python, Unreal Engine, Unity



## Qualifications

The applicant must have at least one of the programming skills: C, C++, Python, C#, VHDL, or Verilog. In addition, previous knowledge on video coding (VVC, HEVC, AVC, AV1), AI (machine learning, deep learning), volumetric coding (V3C, V-PCC, MIV), VR/AR/3D modelling (Unreal Engine, Unity 3D), or high-level synthesis (Catapult-C) is not mandatory but appreciated.

## How to apply

Please complete the online form <https://forms.office.com/e/YBKqcN9zwu> with your resume and transcript of records. The closing date for applications: **Nov. 26, 2024** (at 23.59 EET / UTC+2). Interviews will be started on a rolling basis.

## For more information (in Finnish or in English)

- Dr. Panu Sjövall ([panu.sjovall@tuni.fi](mailto:panu.sjovall@tuni.fi))
- Professor Jarno Vanne ([jarno.vanne@tuni.fi](mailto:jarno.vanne@tuni.fi))

For more info  
SCAN ME



<http://ultravideo.fi/>