Part-time Research Assistant for VR game developing
Aalto University

Job Title	Part-time Research Assistant for VR game developing
Department	T412 Department of Information and Communications Engineering
Institution	Aalto University , , Finland
Date Posted	Mar. 4, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Research/Technical/Laboratory
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Kide/Part-time-Research-Assistant-for-VR-game-developing_R38936

Apply By Email

Job Description

Aalto University is where science and art meet technology and business. We shape a sustainable future by making research breakthroughs in and across our disciplines, sparking the game changers of tomorrow and creating novel solutions to major global challenges. Our community is made up of 13 000 students, 400 professors and close to 4 500 other faculty and staff working on our dynamic campus in Espoo, Greater Helsinki, Finland. Diversity is part of who we are, and we actively work to ensure our community's diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The Department of Information and Communications Engineering is looking for a part-time Research Assistant in the research group:

Aalto Wearable Systems Lab is looking for a paid part-time (30%) Research Assistant for VR game developing that is part of our EU project on a AI-based haptics for VR experiences ([url=https://emil-xr.eu/lighthouse-projects/aalto-smart-garments/]https://emil-xr.eu/lighthouse-projects/aalto-smart-garments/), preferably you are in your first year of master studies. The tasks include Unreal Engine game and AI development, plus wearable technology integration. More info about responsibilities below:

Unreal Engine Development:

* Knowing how to work with blueprints in UE.
* Ability to write C++ for enhancing the existing codebase.
* General understanding of game engines, (3D coordinates, game loops, 3D models, meshes, skeletons, textures, and particle systems).
* Familiarity with user interaction in games (controller and keyboard input, and mechanisms such as model interactions for triggering events).
* Experience with Unity Engine is a plus.

AI Development:

* Understanding of various sensor devices and the acquisition of data from them (e.g. heart rate, motion, face tracking).
* Proficiency in timestamp synchronization and formatting data as required by AI models.
* Experience with Python programming for AI development tasks

Integration of Wearable Technology:

* Knowing how to set up communication between engine and devices over serial connections or TCP sockets.
* Capability to comprehend and utilize API specifications.
* Experience with Arduino for device-side development.
* Proficient in troubleshooting device-side issues, including electronics comprehension, a systematic approach, and patience.

You will be working in a team with a PhD and a Postdoctoral Researcher.

Join Us!

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If you are passionate about gaming, AI and XR and want to be a part of an exciting research project, please share the following application materials with us through our recruitment site Workday ("Apply now!"):

* CV
* Motivation letter

Start can be as soon as possible and at least until the end of this year 2024. Please apply at the latest 18.3.2024.

Please note: Aalto University's employees should apply for the position via our internal HR system Workday (Internal Jobs) by using their existing Workday user account (not via the external webpage for open positions).

Contact person for further questions regarding the position: Doctoral Researcher Tim Moesgen, [url=mailto:tim.moesgen@aalto.fi]tim.moesgen@aalto.fi. In any questions regarding the recruitment process: HR Advisor Monika Mäkinen, [url=mailto:hr-elec@aalto.fi]hr-elec@aalto.fi. More about Aalto University:

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Finland