

Project Employee - Audio Software Developer for Spatial
Audio
Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=230072>

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Posted Feb. 2, 2024, set to expire Dec. 30, 2024

Job Title	Project Employee - Audio Software Developer for Spatial Audio
Department	T412 Department of Information and Communications Engineering
Institution	Aalto University , , Finland
Date Posted	Feb. 2, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Project-Employee---Audio-Software-Developer-for-Spatial-Audio_R38597

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.

School of Electrical Engineering, department of Information and Communications Engineering is looking for an Audio Software Developer to join a team of experts in a research project in the field of

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Spatial Audio Hardware and Software.

This Research to Business (R2B) Project is co-funded by Business Finland, with the aim of establishing a startup company commercializing the project results.

We are now looking for an Audio Software Developer to join the R2B project, with a later possibility to join the planned startup as a key team member.

Responsibilities

As an Audio Software Developer, you will play a crucial role in the development of real-time audio processes, focusing on implementing novel algorithms for Spatial Audio. Collaborating closely with a team of Spatial Audio researchers, you will contribute to the creation of proof of concepts and actively engage in cutting-edge research activities. Your key responsibilities will include:

- Acquaint yourself with and manage an existing library of MATLAB and C/C++ code for Spatial Audio applications.
- Collaborate with the team to implement new algorithms in real-time using C++.
- Evaluate potential integration challenges and devise strategic plans to overcome them.
- Identify potential risks associated with software implementations and implement effective risk mitigation strategies.
- Assess the scalability of the software to ensure it accommodates future growth seamlessly.

Who Are We Looking For

We are looking for a software developer with a keen interest in bringing an innovative Spatial Audio product to market. While you don't need to be a Spatial Audio expert, we value individuals who share a genuine passion for creating something new and are eager to contribute to building a successful commercial business.

The position is envisioned as a full-time occupation in the capital area of Helsinki, Finland.

Minimum Requirements:

- Experience with MATLAB or Python.
- Knowledge of Digital Signal Processing.
- Fluency in English, with good verbal communications skills.
- Master's degree (or soon to be completed degree) in computer science, engineering, or a related field.

Preferred Qualifications:

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- Experience with C/C++;
- Experience developing real-time audio applications (e.g., audio plug-ins, using JUCE/iPlug2).
- Experience in a startup or other technology-driven environment is a plus.
- Background in Spatial Audio.

Your Colleagues & Support

You'll work in tandem with the expert research team, with the support of business advisors and mentors, and Aalto Innovation Services, Aalto Startup Center, and the active Aalto community.

What We Offer

We offer a unique job in an international environment, with the potential creation a new company. This is an exciting opportunity to play a key role in the future success of a technology in the fields of audio, VR/XR, film, television, and more.

The project is funded by Business Finland, Aalto and Tampere University, and will run until 31.12.2024. You will be employed by Aalto University for the duration of the project, with a subsequent possibility of joining the planned startup as a key member of the team.

Join Us!

To apply, please share the following application materials with us through our recruitment site Workday ("Apply now!"):

- CV
- Motivation letter (around half a page)

Starting day as mutually agreed. Please apply as soon as possible, at the latest 3.3.2024.

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: Postdoctoral Researcher Raimundo Gonzalez Diaz, [[url=mailto:raimundo.gonzalezdiaz@aalto.fi](mailto:raimundo.gonzalezdiaz@aalto.fi)]raimundo.gonzalezdiaz@aalto.fi. In any questions regarding the recruitment process: HR Advisor Monika Mäkinen, [[url=mailto:hr-elec@aalto.fi](mailto:hr-elec@aalto.fi)]hr-elec@aalto.fi.

Working in Aalto

All our work in Aalto is guided by the values of the university: responsibility, courage, and collaboration. It's the people that create Aalto, now and in the future. We want to be an open community where

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equality and inclusion enable curiosity, innovation, collaboration and wellbeing.

We offer you a meaningful and inspiring environment. We are proud of our purpose to shape a sustainable future. We spark the game changers of tomorrow, and renew society with research-based knowledge, creativity and an entrepreneurial mindset.

The Otaniemi campus is a thriving and connected community of 100 nationalities, over 13,000 students and more than 4,000 employees. Life at the transformed campus is vibrant and filled with amazing architecture, calming nature, and a variety of cafes, restaurants, services and good connections along the recently opened metro line.

About Finland

Finland is a great place for living with or without family - it is a safe, politically stable and well-organized Nordic society. Finland is consistently ranked high in quality of life and was just listed again as the happiest country in the world: [[url=https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/](https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/)]<https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/>.

For more information about living in Finland: [[url=https://www.aalto.fi/en/careers-at-aalto/living-in-finland](https://www.aalto.fi/en/careers-at-aalto/living-in-finland)]<https://www.aalto.fi/en/careers-at-aalto/living-in-finland> & [[url=https://www.aalto.fi/en/careers-at-aalto/welcome-to-aalto-university-and-finland-info-package](https://www.aalto.fi/en/careers-at-aalto/welcome-to-aalto-university-and-finland-info-package)]<https://www.aalto.fi/en/careers-at-aalto/welcome-to-aalto-university-and-finland-info-package>.

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

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