

**Recrutement prévu dans le cadre du contrat recherche**  
**Projet H2020 LIFE V-aiR**  
**Project number (101074190)**

<b>Job title</b>	<b>VR Engineer</b>
<b>Ref</b>	offreEmploi_2023.06_postdoc_H2020 LIFE V-aiR
<b>Job type (PhD, Post-doc, Engineer)</b>	<b>Engineer</b>
<b>Contract duration (months)</b>	24 months
<b>Salary</b>	Gross monthly salary 2 691 €
<b>Qualifications (Master degree, PhD...)</b>	Master or Engineering diploma in Computer Science speciality Virtual worlds
<b>Job hours (full time/ part time)</b>	Full time
<b>Employer</b>	UBFC – Université Bourgogne Franche-Comté
<b>Host Laboratory</b>	Distributed Knowledge and Artificial Intelligence (CIAD)
<b>URL Host Laboratory</b>	<a href="https://www.ciad-lab.fr">https://www.ciad-lab.fr</a>
<b>Address Host Laboratory</b>	UTBM (Laboratoire CIAD) Rue Thierry Mieg 90010 Belfort cedex
<b>Job description</b>	<p><b>Context:</b> We are a leading laboratory involved in the LIFE V-aiR European Project, focused on revolutionizing the way citizens and decision-makers perceive and address air quality issues. Our project aims to develop cutting-edge Virtual Reality (VR) applications that will enable behavioral changes and promote awareness regarding air quality. By leveraging immersive technologies, we strive to create impactful experiences that motivate positive actions towards improving the air we breathe. We are seeking a talented VR Application Developer to join our dynamic team and contribute to this groundbreaking initiative.</p> <p><b>Position Overview:</b> As a VR Application Developer for the LIFE V-aiR European Project, you will be responsible for designing, developing, and implementing immersive VR applications aimed at changing citizen and decision-maker behavior regarding air quality. You will collaborate closely with a multidisciplinary team of experts in environmental science, user experience, and data analysis to create impactful experiences that raise awareness and drive positive actions. This role offers an exciting opportunity to combine technical expertise in VR development with a passion for environmental sustainability.</p>

**Responsibilities:**

- Design and develop innovative VR applications that effectively communicate the importance of air quality and encourage behavioral changes among citizens and decision-makers.
- Collaborate with the project team to identify user needs, define application requirements, and ensure the alignment of VR experiences with project objectives.
- Conduct research and analysis to identify best practices, emerging technologies, and trends in VR application development for behavior change.
- Create immersive and interactive VR environments, incorporating 3D models, animations, audio, and user interactions to enhance user engagement and understanding.
- Integrate real-time air quality data into VR applications to provide users with accurate and up-to-date information.
- Optimize VR applications for performance, ensuring smooth frame rates, realistic visuals, and intuitive user interfaces.
- Test and debug VR applications, addressing technical issues and refining user experience based on feedback and usability testing.
- Stay updated on advancements in VR technologies and software development tools to enhance the effectiveness and efficiency of VR application development.
- Document development processes, methodologies, and technical specifications to facilitate collaboration and knowledge sharing within the project team.

**Qualifications:**

- Master's or Engineering degree in Computer Science, Software Engineering, or a related field.
- Solid experience in developing VR applications using industry-standard frameworks and tools (e.g. Unreal Engine, Oculus SDK).
- Proficiency in programming languages commonly used in VR development, such as C++.
- Strong understanding of VR interaction design principles and best practices.
- Knowledge of 3D modeling and animation techniques for VR environments.
- Familiarity with integrating real-time data feeds into VR applications.
- Ability to optimize VR applications for performance across different platforms (e.g., PC, mobile devices, VR headsets).
- Excellent problem-solving skills and attention to detail.
- Strong communication and collaboration skills to work effectively within a multidisciplinary team.
- Passion for environmental sustainability and a desire to contribute to positive change through technology.

**Preferred Qualifications:**

- Prior experience in developing VR applications for behavior change or environmental education.
- Knowledge of air quality concepts, monitoring techniques, or environmental science.
- Experience with data visualization in VR environments.
- Familiarity with agile software development methodologies.

	<p>Join us in the LIFE V-aiR European Project and make a lasting impact on air quality by harnessing the power of Virtual Reality. Together, let's create immersive experiences that inspire change and drive a sustainable future.</p> <p>Note: The above job description is a general outline and may be subject to change based on the specific requirements and objectives of the LIFE V-aiR European Project.</p>
<b>Supervisor(s)</b>	Pr. GECHTER Franck (franck.gechter@utbm.fr)
<b>Candidate profile</b>	With an engineering degree or a master's degree in computer science, the candidate must master Unreal Engine 5.0 and have a strong experience in development in VR applications on light headsets. An experience in European program would be appreciated. According to the context of the project in which the candidate will be involved, a high sensibility on sustainable development and ecology is mandatory.
<b>Keywords</b>	VR applications development, Unreal Engine, Air Quality application
<b>Application deadline</b>	July 1 <sup>st</sup> 2023
<b>Starting Job</b>	August 1 <sup>st</sup> 2023
<b>Application</b> <i>Depending on the type of position</i>	<p><i>Please send the following documents (all in one PDF file) by e-mail to: <a href="mailto:franck.gechter@utbm.fr">franck.gechter@utbm.fr</a></i></p> <ol style="list-style-type: none"> <li>1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed. For non-EU candidates: Copy of your passport page where your photo is printed.</li> <li>2) Curriculum Vitae (1 page).</li> <li>3) Letter of motivation relatively to the position (1 page).</li> <li>4) Copy of your master's degree and/or Engineer degree if already available.</li> <li>5) Copy of your final marks and ranks (if available).</li> <li>6) Coordinates of reference persons (maximum 3, at least your master thesis supervisor): Title, Name, organization, e-mail.</li> </ol> <p>If you have questions regarding the application, please contact the supervisors.</p>