Gameplay Programmer (C++ Vehicle Physics)

We are seeking a physics programmer to join our studio. We are looking for someone with experience, who has the ability to work in a fast-moving environment and adapt to working with different technology stacks as required. Previous experience in game development and related technology is a plus. You will have the opportunity to develop top-notch low-level physics systems for our next generation of games and help deliver an awesome player experience.

Requirements:

- Experience working on physics systems in at least one game engine, UE4 a plus
- Solid understanding of vehicle physics, spatial data structures, collisions and intersection testing and performance issues related to complex equations
- Experience on the creation of vehicle architecture, code, and tooling and the physics of driving/flying in those vehicles
- Very strong math skills and background
- Excellent knowledge of C/C++
- Good verbal and written communication skills
- A strong desire to create world-class games

Desirable:

- Degree in Physics, Mathematics, Computer Science, Computer Engineering or equivalent
- Experience with any other programming languages, especially Python
- Experience in the game development industry, and related technology (e.g. Unreal, Unity)
- Experience using Agile methodologies
- Shipped games

Additional info:

We think these are some of the really good things about where we work:

- We are conveniently located near Central Station
- We have a casual dress code and flexible working hours
- We work on challenging projects

Role description

The role description gives an overview or what the job involves and how if fits within an organisation. It will often highlight the skills or experience needed to do the job.

You should refer back to the role description when considering responses to the selection criteria to ensure that you are using appropriate keywords.

Selection criteria

The selection criteria are used to assess your suitability for a role. Examples of how you meet these criteria may be required as part of your written application or during an interview. Some organisations require candidates to meet all selection criteria whereas others are more flexible in their assessment of candidates.

Criteria that mention 'Proven', 'Demonstrated' or 'Applied' will require an example where you have performed those tasks.

Sometimes the selection criteria will be divided into "essential" and "desirable" criteria. If you're unable to address the essential criteria, you are unlikely to progress to the next stage.

Desirable selection criteria don't require a response but if you have relevant skills and experience that address these criteria, you should include a response.

Desirable criteria highlight the importance of getting work experience as they're often related to experiences obtained outside of university. These desirable skills and experience can often set you apart from other candidates.

- We have a games room with multiple game consoles, table tennis, and guitars

- Our kitchen is stocked with good coffee machines, more tea than you can handle, and a constant supply of fresh fruit

We pride ourselves on a positive and friendly team environment, and offer all our employees a comprehensive benefits package including discounted private health care, subsidized fitness/gym memberships, breakfast provided every day, a weekly company-provided lunch, and more.

We are an equal opportunity employer and welcome all races, religions and genders. We have zero tolerance for workplace bullying, discrimination, and harassment.

How to apply

To apply, please use the provided link.

Extra information

Sometimes position descriptions will contain other information that further defines what the role involves and how the person performing the job is expected to behave.

This type of information is common in government department or other large organisations with formal recruitment processes.

You're generally not expected to respond to this information but you should keep it in mind when writing your application and during an interview.

Instructions
Ensure you follow the instructions outlined on each job advert. Don't assume that each job advert will have the same requirements.

No detailed instructions have been provided but the link to the application form allows a cover letter and resume to be uploaded.

In this instance, your cover letter should address the selection criteria and should not exceed two pages.