

# Software Engineer - Calibration Team

Pittsburgh, PA

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Reality Labs Research (RL-R) brings together a diverse and highly interdisciplinary team of researchers and engineers to create the future of augmented and virtual reality. Software development is vital to empowering our scientific explorations and generating viable paths to the consumer products people will use for decades to come — products that will truly give people superpowers. At RL-R Codec Avatars, we aspire to a vision of social VR and AR where people are able to interact with each other across distances in a way that is indistinguishable from in-person interactions, with Codec Avatars that look like you and move like you. We're just getting started. You can help us make this dream a reality and accomplish your life's best work here!

In the calibration team, we are looking for a talented and motivated software engineer that can help us build data processing pipelines, as the data move from our motion capture systems and devices to functional codec avatars for photorealistic telepresence applications. Help us build the future of telepresence of the Metaverse!

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## Software Engineer - Calibration Team Responsibilities

- Analyze, evaluate, design, develop, integrate, debug and test calibration algorithms, software tools, processing pipelines
- Prototype software-hardware interfaces for characterizing, modeling and calibration of camera lenses and image sensors

- Collaborate in a team environment across multiple scientific and engineering disciplines, making architectural trade-offs required to rapidly deliver software solutions
- Work with mechanical, software, research engineers, and research scientists to understand challenges in building state-of-the-art software systems
- Write clean readable code, debug complex problems that span systems, prioritize ruthlessly, work efficiently
- Learn constantly, educate others, dive into new areas with unfamiliar technologies, and embrace the ambiguity of AR/VR problem solving

## Minimum Qualifications

- Currently has, or is in the process of obtaining a Bachelor's degree in Computer Science, Computer Engineering, relevant technical field, or equivalent practical experience. Degree must be completed prior to joining Meta.
- 3+ years experience with modern C++ and Python
- Experience with software development practices such as source control, code reviews, unit testing, debugging and profiling
- Experience developing APIs, SDKs and developer tools
- Experience working independently and in highly dynamic environments

## Preferred Qualifications

- 5+ years hands-on experience with Python and modern C++
- Experience with software development on various operating systems such as Linux, Android, MacOS, and Windows
- Experience developing data engineering pipelines for consumption in machine learning workflows

- Computer vision or computer graphics experience
- Experiences in working with large-scale datasets, developing deep learning training frameworks, and developing PyTorch extensions in C++ or CUDA
- Experience developing, debugging, and shipping software products on large code bases that span platforms and tools
- Experience with parallel computing with GPU's using CUDA

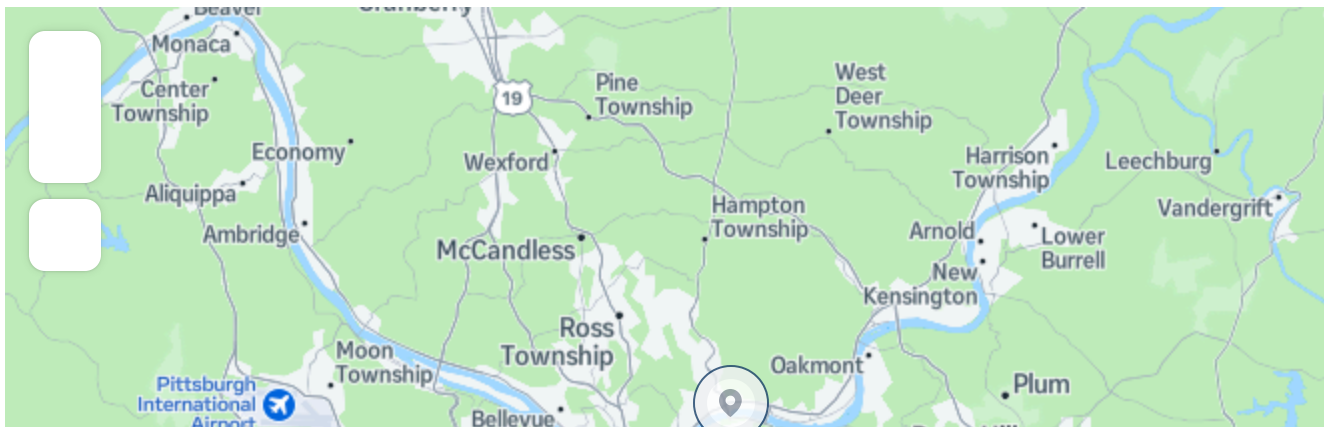


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## About Meta

Meta builds technologies that help people connect, find communities, and grow businesses. When Facebook launched in 2004, it changed the way people connect. Apps like Messenger, Instagram and WhatsApp further empowered billions around the world. Now, Meta is moving beyond 2D screens toward immersive experiences like augmented and virtual reality to help build the next evolution in social technology. People who choose to build their careers by building with us at Meta help shape a future that will take us beyond what digital connection makes possible today—beyond the constraints of screens, the limits of distance, and even the rules of physics.

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\$117,000/year to \$173,000/year + bonus + equity + benefits

Individual compensation is determined by skills, qualifications, experience, and location. Compensation details listed in this posting reflect the base hourly rate, monthly rate, or annual salary only, and do not include bonus, equity or sales incentives, if applicable. In addition to base compensation, Meta offers benefits. Learn more about [benefits](#) at Meta.

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