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Synthesia



...

## Senior Research Engineer - Audio Post-Training

London Area, United Kingdom · 5 days ago · 14 people clicked apply

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 Hybrid Full-time

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Recent Senior Research Engineer hires at  
Synthesia

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### About the job

#### Welcome to the video first world

From your everyday PowerPoint presentations to Hollywood movies, AI will transform the way we create and consume content.

Today, people want to watch and listen, not read — both at home and at work. If you're reading this and nodding, check out our [brand video](#).

Despite the clear preference for video, communication and knowledge sharing in the business environment are still dominated by text, largely because high-quality video production remains complex and challenging to scale—until now....

#### Meet Synthesia

We're on a mission to make video easy for everyone. Born in an AI lab, our AI video communications platform simplifies the entire video production process, making it easy for everyone, regardless of skill level, to create, collaborate, and share high-quality videos. Whether it's for delivering essential training to employees and customers or marketing products and services, Synthesia enables large organizations to communicate and share knowledge through video quickly and efficiently. We're trusted by leading brands such as Heineken, Zoom, Xerox, McDonald's and more. Read [stories from happy customers](#) and what 1,200+ people say on G2.

In February 2024, G2 named us as the fastest growing company in the world. Today, we're at a \$2.1bn valuation and we recently raised our Series D. This brings our total funding to over \$330M from top-tier investors, including Accel, Nvidia, Kleiner Perkins, Google and top founders and operators including Stripe, Datadog, Miro, Webflow, and Facebook.

What you'll do at Synthesia:

As a Research Engineer you will join a team of 40+ Researchers and Engineers within the R&D Department working on cutting-edge challenges in the Generative AI space, with a focus on creating high-quality, expressive and real-time synthetic voices. Within the team you'll have the opportunity to work on the applied side of our research efforts and directly impact our solutions that are used worldwide by over 60,000 businesses.

If you are an expert in ML LLMs speech generation conversational model s, this is your chance to make a global impact. You will join our Audio Post-Training Team , which works on generative speech and voice synthesis , ensuring our in-house voice models reach production-level quality, speed, and robustness. Typical projects include:

- Adapt models for new conditioning inputs (emotion, speed, prosody, speaker control, etc.).
- Develop and evaluate streaming and speech-to-speech systems, enabling low-latency, interactive voice synthesis.
- Implement post-training optimization techniques (quantization, pruning, distillation) to improve efficiency and latency in real-time speech generation.
- Integrate and test novel architectures, such as neural codecs, diffusion, or flow-matching models, to enhance realism and responsiveness.
- Contribute to defining new evaluation metrics for conversational speech, including latency-aware and online MOS prediction systems.
- Stay updated with the latest research in audio diffusion, autoregressive models, neural codecs, and multimodal LLMs.
- Apply DPO (Direct Preference Optimization) and distillation to fine-tune large-scale speech models.

#### What we're looking for:

- Strong understanding of generative modelling, ideally applied to sequential or multimodal data.
- Hands-on experience with large language models (LLMs) or similar transformer-based architectures.
- High proficiency in PyTorch, including experience with distributed training and model optimization.
- Solid grasp of time-series modelling and tokenization, preferably in the context of audio or speech.
- Demonstrated ability to prototype quickly, test hypotheses, and iterate efficiently.
- Proven experience in training deep learning models end-to-end, from data preparation to evaluation.
- Strong general software engineering skills, enabling contributions to a large, shared research infrastructure.

#### Nice-to have experience

- Experience with real-time or streaming architectures is a big plus.
- Familiarity with state-of-the-art architectures in audio and speech generation (e.g., diffusion models, neural codecs, flow-matching models, autoregressive decoders).
- Experience with speech-to-speech or text-to-speech (TTS) systems.
- Evidence of original research contributions, such as publications or open-source work in top-tier venues (e.g., ICASSP, Interspeech, NeurIPS, ICML).

#### Why join us?

We're living the golden age of AI. The next decade will yield the next iconic companies, and we dare to say we have what it takes to become one. Here's why,

#### Our culture

At Synthesia we're passionate about building, not talking, planning or politicising. We strive to hire the smartest, kindest and most unrelenting people and let them do their best work without distractions. Our work principles serve as our charter for how we make decisions, give feedback and structure our work to empower everyone to go as fast as possible. [You can find out more about these principles here.](#)

We're trusted by leading brands such as Heineken, Zoom, Xerox, McDonald's and more. Read stories from happy customers and what 1,200+ people say on G2.

#### Proprietary AI technology

Since 2017, we've been pioneering advancements in Generative AI. Our AI technology is built in-house, by a team of world-class AI researchers and engineers. Learn more about our AI Research Lab and the team behind.

#### AI Safety, Ethics and Security

AI safety, ethics, and security are fundamental to our mission. While the full scope of Artificial Intelligence's impact on our society is still unfolding, our position is clear: **People first. Always.** Learn more about our commitments to AI Ethics, Safety & Security.

#### The good stuff...

- Competitive compensation (salary + stock options + bonus)
- Fully remote from Europe or hybrid work setting with an office in London, Amsterdam, Zurich, Munich
- 25 days of annual leave + public holidays
- Great company culture with the option to join regular planning and socials at our hubs
- + other benefits depending on your location

You can see more about Who we are and How we work here:  
<https://www.synthesia.io/careers>

LI-MD1

[See less ^](#)

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Senior Research Engineer, London Area, United Kingdom

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14% have a Master of Technology

36% have other degrees

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## Exclusive Job Seeker Insights about Synthesia

Powered by Bing

### Company focus areas

- **AI Video Generation Innovation:** Continue to innovate in AI video generation, enhancing the realism and interactivity of avatars and video content. The launch of Synthesia 3.0 marks a significant upgrade with real-tim ...show more

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### Hiring & headcount

Significant growth in sales: The 'Sales' department has seen a 66% increase in headcount over the past year, indicating a major initiative to boost sales efforts and expand market reach. Expansion in engineering and IT: The 'En ... show more

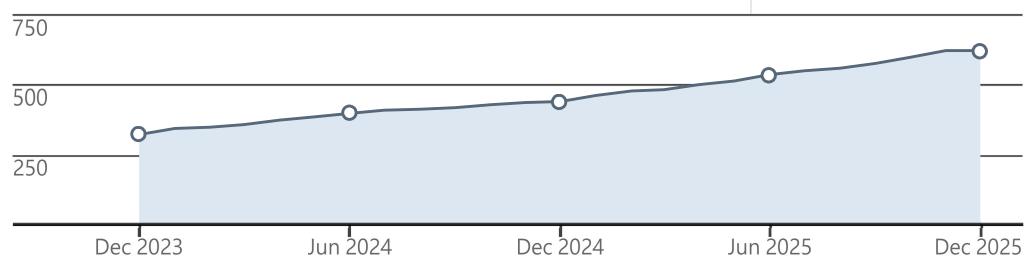


### The latest hiring trend

623  
Total employees

▲ 93%  
Company-wide  
2 year growth

▲ 80%  
Engineering  
2 year growth



⌚ Median employee tenure · 1.6 years

### Competitors

Synthesia is a leading player in the AI video generation market, known for its intuitive interface and professional-quality video production capabilities. The competitive landscape is dynamic, with significant competition fro ... show more



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### About the company



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Software Development • 501-1,000 employees • 623 on LinkedIn

Synthesia is the #1 rated AI video communications platform. Thousands of companies use it to create videos in 140 languages, saving up to 80% of their time and budget. 🌐 Trusted by Zoom, Xerox, Teleperformance, Amazon and...

### Interested in working with us in the future?

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