

Full-Time Job

## Principal Engineer, YouTube ML Recommendations Systems - San Bruno



## About this role

Full-Time Job (Level 8)

Location: San Bruno

Job family: Software Engineering

Job subfamily: Software Engineering

Product Area: YouTube

Updated Oct 15 | 111 views

## Team members

[Romer Rosales](#)

San Bruno

Vice President, Engineering,...

[Eric Barradas](#)

San Bruno

Executive Recruiter - YouTube

## Description

We are looking for a visionary and influential Principal Engineer to help build the next generation of our Machine Learning (ML) Systems that enable new Models at YouTube, including new paradigms, higher efficiency, and faster scaling. This will directly support a technological push for YouTube to build the next generation ML systems and models for Recommendations. This role will involve partnering closely with ML/Product Engineers/Product Managers to build better experiences for our viewers; with Google Research to understand, create, or adapt new technology for YouTube's products; and with Infrastructure Teams to build the next generation scalable solutions. This role also requires being a trusted partner to provide feedback and help in upleveling ML infrastructure and models for recommendations as a whole. Your work will help us scale these solutions for Responsible Recommendations in the YouTube Home, WatchNext, Shorts, Notifications, and other viewer experiences.

This is an extremely exciting opportunity to pioneer areas at YouTube that will help improve our content recommendations and content understanding across the board.

### Minimum Qualifications:

- Bachelor's degree in CS, or similar technical field of study or equivalent practical experience
- 12 years of professional experience, including experience in technical leadership and innovation
- Background or engineering experience in Machine Learning with a focus in ML Systems and Recommendations, software development and implementation
- Interest in working closely with a cross-functional team of engineers, product managers, data scientists.

### Preferred Qualifications:

- Master's degree or PhD in Computer Science or related field.
- 15 years of professional experience in engineering with a demonstrated track record of technical innovation with large scale user facing products.
- Deep technical expertise in building large-scale Machine Learning Systems, solid knowledge of ML models/algorithm design/implementation, and their application to real-world problems.

## Express Interest

Use the field below to send a message to this role's contact person. Your message is private: only that contact and the staffing team can see it. If you're in Tech, the hiring manager may request your GRAD from People Ops (see [go/sharemygrad](#)).

If you have questions about the role, but aren't yet ready to express interest, email the hiring manager listed to the left. If you're transferring into Google from another Bet, check out [go/bet-mobility-faq](#) first.

For more information regarding short term assignments, including eligibility, please visit [go/transfers](#).

Have non-role specific questions about the Leadership Transfer Process at Google? Thinking about a Transfer with Level change? Curious about ways to optimize your application? Sign up for a confidential, 1:1 mobility session at [go/leadershipmobility-oh](#) or review curated resources at [go/leadershipmobility](#).

[Eric Barradas](#)

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Transfer message\*

**EXPRESS INTEREST**

- Full-stack backend software development and implementation of sustainable, well-designed systems and data pipelines, with production launch/impact.
- Ability to communicate and collaborate effectively to create a shared sense of vision or purpose cross team and cross functionality.
- Ability to think in a strategic manner to develop innovative product solutions.
- Ability to promote engineering and product excellence.

**Responsibilities:**

- Provide the technical vision and strategy for machine learning systems and models for recommendations.
- Design and lead a multi-year technical roadmap, balancing short and long-term technology investments.
- Develop a vision for recommendation technologies with engineers, researchers, and other cross-functional partners.
- Drive and coordinate collaboration with Google Research/DeepMind, Google Core, Quality Product, and Infrastructure teams.
- Communicate team's plans with YouTube leadership.
- Review technical design from the team and guide technical discussions.
- Track and evaluate industry trends and technical innovations in this space.
- Mentor the career of Senior ICs with technical and career guidance.

The US base salary range for this full-time position is \$294,000-\$414,000 + bonus + equity + benefits. Transfer compensation is determined algorithmically and is non-negotiable. Your recruiter will share more about the specific salary for your targeted location during the hiring process. Learn more about [how a transfer may affect your compensation package](#), [how location changes affect compensation](#), and about benefits at Google at [go/benefits](#).

Skills:

Software Engineering

☒ My skills ☐ Other skills