



Engineer Job Description

We are looking for an experienced **Research Engineer / Creative Technologist** to help design and build web-based research prototypes exploring new forms of human-AI interactions. This role sits at the intersection of **advanced web interfaces, accessibility, sonification, education technology, and state-of-the-art multimodal AI**. The role is a full time commitment for a 3-month period starting Sept. 1, 2026.

The ideal candidate is a strong hands-on prototyper who can take an emerging research idea and quickly turn it into a robust, interactive system that can be tested with users. You should be comfortable working in ambiguous research environments, experimenting with unconventional interaction techniques, and integrating new AI models and capabilities as they emerge.

- Expert-level JavaScript/TypeScript skills and strong knowledge of browser APIs and frontend architecture.
- Strong experience with **Web Audio API, browser-based audio processing, audio interaction, or sonification**.
- Strong understanding of **web accessibility and assistive technology**, including experience designing beyond conventional visual interfaces.
- Hands-on experience integrating modern **multimodal AI / foundation models** into interactive applications.
- **Required experience building with agentic AI frameworks and architectures**, including systems involving tool/function calling, planning, orchestration, state or memory, multi-step execution, and interaction with external environments.
- Familiarity with modern agent frameworks and patterns such as **agent loops, tool registries, skills, planners/executors, memory, multi-agent coordination, and human-in-the-loop validation**.
- Comfort working independently on technically ambiguous problems where the implementation path may not yet be known.

- Ability to move fluidly and quickly between exploratory prototypes and more robust implementations suitable for user studies.
- Experience with developing educational technology is a plus.
- This project operates on a fixed timeline with firm delivery milestones, so the ability to **execute quickly and reliably is essential.**

Interested candidates should send a short statement of interest (no more than 300 words) and their CV to phynes@stanford.edu.