



Teacher Fellow - NeuroAI for High School

Time zones and location: Applicants should be located in New York, NY, USA, or the surrounding area. This position is mostly remote, but requires some in-person work in New York, NY, USA.

Compensation: A stipend will be provided: \$65 per hour (calculated for the New York, NY rate) based on skills and experience. We use a geography-based compensation strategy that adjusts salaries based on the cost of living and market rates in a specific country. You can see our full Hiring and Compensation Policy [here](#).

Fellowship Period:

- We aim to fill this role in October 2026.
- Curriculum Development: October- May 2027
- Teachers' Workshop: July 2027
- Closing Symposium: January 2028

Time Commitment: Approximately **3-4 hours per week** during curriculum development (flexible schedule), plus participation in the teacher workshop in **late July 2027**.

Terms: Part-time contract role, hired through Neuromatch.

Role Summary

The NSF AI Institute for Artificial and Natural Intelligence (ARNI) at Columbia University, in partnership with Neuromatch and Teachers College, is seeking an enthusiastic active **high school Teacher Fellow** to help co-design an innovative curriculum for **grades 11-12** exploring the intersection of **neuroscience, artificial intelligence, and society**. Supported by the Dana Foundation, the curriculum will help students understand how brains and AI systems learn, where they differ, and the ethical and societal questions that emerge as AI becomes increasingly integrated into our lives.

More about the project:

The last decade has brought significant advancements in machine learning and neuroscience, giving rise to the emerging interdisciplinary field of NeuroAI. As AI systems are rapidly adopted across society, especially by younger generations, they are increasingly shaping decisions in education, healthcare, and everyday life. Yet many students lack a foundational understanding of how intelligence works in brains and machines, often encountering AI only through superficial prompt-based interactions with generative tools or media narratives, leaving them unprepared to critically evaluate AI systems' capabilities, limitations, and ethical implications. This represents a

missed opportunity to help students understand how intelligent systems learn, generalize, and fail. Current educational approaches often treat neuroscience and artificial intelligence as separate domains. Neuroscience education often focuses on brain structure and biological mechanisms, while AI instruction focuses on applications or coding tools. As a result, a critical gap remains in helping students understand the conceptual connections between brain function and artificial intelligence: how AI systems work; where they fail; and how they differ from human intelligence. Improving AI literacy is therefore an urgent educational priority, and connecting neuroscience and AI offers a powerful pathway for students to understand how intelligence emerges and to critically evaluate AI systems and their societal implications.

To address this gap, the NSF AI Institute for Artificial and Natural Intelligence (ARNI) at Columbia University, in partnership with Neuromatch and the Teachers College Digital Futures Institute (DFI), proposes a targeted high school (Grades 11-12) extracurricular program: NeuroAI: Intelligence in Brains and Machines. The program is grounded in established best practices, including the AI4K12 "Five Big Ideas in AI" framework and the Computer Science Teachers Association (CSTA) AI learning priorities, which emphasize conceptual understanding and the societal implications of AI technologies. Leveraging ARNI's research leadership at the intersection of artificial intelligence, neuroscience, and cognitive science, alongside Neuromatch and DFI's expertise in accessible, project-based pedagogy, the program will translate NeuroAI advances into engaging, classroom-ready materials, co-developed with New York City teachers. The curriculum will introduce shared principles of artificial and natural intelligence, including learning, representation, and generalization; the bidirectional relationship between neuroscience and AI; and the ethical and societal implications of emerging NeuroAI technologies. Critically, the proposed program also responds to persistent disparities in STEM preparation and access to advanced learning opportunities in under-resourced schools, with a commitment to broadening participation in the emerging field of NeuroAI.

Key Responsibilities

1. Collaborate with an Advisory Board and work closely with a Curriculum Specialist to co-design and build engaging classroom lessons and activities in a digital format that can be implemented by teachers in their own in-person classrooms
2. Bring the perspective of a practicing teacher to ensure the curriculum is practical, engaging, and aligned with high school classrooms
3. Review and refine instructional materials, assessments, and teacher resources
4. Participate in regular virtual planning meetings throughout the development process
5. Help facilitate a professional development workshop for approximately 15 New York City teachers in late July 2027

Desired Skills & Experience

- Current or recent high school teacher in science, computer science, mathematics, engineering, or another STEM discipline, with at least 3-5 years of experience
- Experience teaching in NYC public schools, grades 9-12
- Working in Title I schools is especially valued

- Experience designing or adapting classroom curriculum is desirable
- Demonstrated experience in adapting complex STEM concepts into accessible learning experiences
- Familiarity with NY high school learning standards is highly preferred
- Curiosity about emerging technologies and an interest in helping students explore how neuroscience and AI are transforming society

About ARNI

The [NSF AI Institute for Artificial and Natural Intelligence](#) (ARNI), established in 2023, bridges neuroscience, cognitive science, and artificial intelligence to redefine the scientific foundations of AI. Our mission is twofold: to build smarter AI algorithms that can adapt, generalize, and perform under real-world constraints, such as energy budgets, grounded in principles of brain and cognition; and to leverage AI as a powerful scientific instrument to accelerate discovery in neuroscience. ARNI connects a decade of transformative advances in neuroscience and AI, creating a bidirectional research paradigm that accelerates progress in both fields.

About Neuromatch

[Neuromatch](#) is a nonprofit organization dedicated to training the next generation of global computational research leaders. Our mission is to accelerate scientific innovation by facilitating inclusive, collaborative, and global participation in the computational sciences. We do this through high-quality education, career development programs, and field-building initiatives at the intersection of computational science, AI, and neuroscience — accessible to everyone, everywhere. We are best known for our flagship program, [Neuromatch Academy](#), which offers online courses in computational neuroscience. Over the past six years, these programs have empowered more than 13,000 students from over 135 countries.

In addition to our educational initiatives, Neuromatch actively supports the career development and mentorship of early-career researchers through our [Impact Scholars Program](#) and our [AI Sentience Scholars Program](#) (AISS). We are also pioneering efforts to advance interdisciplinary research that leverages computational or AI approaches through our field-building strategy. Neuromatch leads [MEXA](#) (Mental Health x AI), supported by Wellcome, a global research platform designed to drive innovation in mental health research by leveraging artificial intelligence and computational sciences.

How to Apply

- Complete [Google Form](#)
- Statement of Interest (details below)
- Attach your resume/CV (1-2 pages)
- Reference (list 1 professional reference with their contact information)

Statement of Interest (1 page max, 12 pt font, Times New Roman)

- Explain your interest in this position and how it aligns with your professional goals, relevant curriculum/classroom experience
- Highlight your experience with emerging technologies, particularly your interest in how neuroscience and artificial intelligence are transforming society, and the perspective you will bring in the curriculum co-design
- Briefly describe an example of a learning activity you developed or substantially adapted. What were your goals and how did you make the materials accessible and engaging for your students

Deadline: 4 October 2026 (23:59, Anywhere on Earth – AoE).

Questions: Contact arni@columbia.edu

Neuromatch is committed to building a diverse, equitable, and inclusive workplace. We strongly encourage applications from individuals of all backgrounds, identities, and career paths. If you are excited about the role but do not meet every listed qualification, we encourage you to apply.