



ROLE: AI/ML Engineer - Multimodal AI

Location: Canada, Remote
Level: Management
Job Type: Full-time/Regular

Education: Masters degree
Years of Experience: 10+ years
Starting Date: Immediate

About Educational Testing Service (ETS)

For more than 75 years, ETS has amplified products and services based on rigorous research and the belief in the power of learning. Driven by its mission to **advance quality and equity in education worldwide**, ETS provides learning solutions, pioneering research and trusted assessments that help guide learners around the world on their path to new possibilities.

ETS' portfolio of trusted measures includes **TOEFL®**, **TOEIC®**, **GRE®** and **Praxis®**. Along with research, development and innovation that explores new frontiers in learning and measurement ETS' educational measurement solutions and research contribute to the development of new methods and tools, inform important dialogue with education policymakers, and shed light on critical issues and potential solutions - all with the aim of creating a world where all learners can improve their lives through education.

With new senior leadership at the helm, ETS aims to continue changing the lives of all learners as it expands the organization's global footprint. ETS' goal is to remain at the forefront of assessment and measurement efficacy within the education and ed tech space as it continues to grow and evolve.

About ETS Canada

Educational Testing Service Canada, Inc. (ETSCI) is a wholly owned subsidiary of ETS operating independently from the parent company ETS. However, our aims align with ETS's mission to **advance quality and equity in education worldwide**, and our dedicated employees work towards achieving this mission.

Your opportunity

We are seeking an AI Engineer to join the Product Innovation and Development (PID) team. The PID team develops AI-based solutions that are built on a foundation of learning and cognitive science principles that leverage interactive task design, machine learning, and data sciences. Solutions will be integrated in various teaching, learning, and assessment solutions. The AI Engineer's role is to build, train and deploy multimodal AI models that power innovative features for the AI-based prototypes.

Position Summary

This position is for staffing the Multimodal AI (MMAI) team, where we are specifically looking for individuals who have exposure, experience or even expertise in the following:

Responsibilities

- Develop Artificial Intelligence (AI)/ Machine Learning (ML) models to achieve business objectives
- Time-series, predictive modeling based on multimodal information (i.e., video, text, speech, and other modalities) for non-cognitive, behavioral performance tasks
- Non-cognitive, behavioral performance-based tasks modeling

- Bias-mitigated modeling where models trained do not encode biases from human annotators
- Implement effective methods of AI/ML model testing during development, deployment, and recalibration
- Utilize best practices around design, coding, automated unit, regression testing, and deployment of AI/ML models to production; and responsible use of AI
- Keeping current with latest AI / NLP / Speech / Video research
- Work effectively in the agile-at-scale framework
- Clearly communicate findings to business stakeholders

Experience and Skills

Education, Certifications, or Special Licenses:

- Master's Degree in Computer Science, Applied Mathematics, Engineering or a related field

Relevant Years of Experience:

- At least three years of training or experience in AI/ML algorithm development
- Experience in technology-enhanced learning solution research and development

Other Requirements:

- AI/ML engineers will make heavy use of AWS, Microsoft Azure, OpenAI and Hugging Face models.
- Experience with Python-based AI/ML frameworks, Java
- Experience with cloud-based (AWS) deployment of models, performance monitoring and issues troubleshooting
- Experience with ML frameworks (like Keras or PyTorch) and libraries (like scikit-learn)
- Excellent written and oral communication skills
- Ability to work effectively in a cross-functional team

ETS Canada believes in a Total Rewards philosophy for our employees that includes:

- Health, Vision, Dental insurance
- Generous continuous learning support, from individual learning grants to up to 6 classes a year for tuition reimbursement as well as on-line learning access!
- Generous PTO and vacation time to balance your work and life
- Additional 8 hours of PTO for volunteer work
- Retirement plan (RRSP) with company contribution

What else we offer:

- Flexible work-from-home arrangements
- A collegial and collaborative environment
- A fun, energetic and supportive team

ETS Educational Testing Service Canada Inc. is an Equal Opportunity Employer. We strive to create a diverse, equitable, inclusive, and accessible workplace. Please let us know if we can provide adjustments to the recruitment process to make it more accessible for you.

Please send your resume and cover letter to careers@etscanada.ca. For more information, please visit www.etscanada.ca.

ETS Educational Testing Service Canada Inc. is a drug-free workplace and an Equal Opportunity and Affirmative Action Employer of Women and Minorities, Protected Veterans and Individuals with Disabilities.