

Training Notification Form, IIT Delhi

Company Overview

Name:	Sony Japan
Website:	https://www.sony.com/en/
Company Type:	Information Technology
Description:	<p>Sony was established by founders who shared a dream and a strong will to enrich people's lives through the power of technology. From our founders' dreams and aspirations, Sony has grown over the years connecting more people with their dreams.</p> <p>Sony runs a diverse portfolio of businesses from Electronic Business to Music, Movies, and Entertainment, all of which center around "People".</p> <p>Talents from all over the world have been playing critical roles to make this happen, and will continue to in light of our journey ahead.</p> <p>We are excited to continue trailblazing with a globally oriented mindset, and we ask that you consider joining us on our journey ahead!</p>

Project Details

Designation:	TNF 4 : AI Application Engineer
Type:	Information Technology
Location:	Toko, Japan
Project Details:	[Technology Field] Natural Language Processing Computer Vision

[Position Summary]

Join our team of R&D engineers to embark on an exciting journey of applied research and prototype development! Within our diverse and innovative project portfolio, you will have the opportunity to take on real-world challenges related to the fields of natural language processing, computer vision, machine learning, human-computer interaction, cloud services, computer graphics, data analysis, and their intersections. As such, you will have the opportunity to propose cutting-edge user and creator experiences that contribute to a range of businesses within Sony Group, including Sony Pictures Entertainment, Sony Music Entertainment, Sony Interactive Entertainment, and Sony Life Insurance.

Below are examples of ongoing projects you may contribute to:

- Content Creation Support Technology: Develop technology for the automatic generation of dialogue and live commentary in entertainment (such as movies), animation, games, and music. Our goal is to enhance content creation workflows and collaborate with various divisions to explore automatic content creation for "virtual productions".
- Multimodal AI Application Technology: Dive into the exciting field of multimodal AI, combining different modalities such as images and text to solve complex tasks. Here, we contribute to the development of practical multimodal AI application technologies for Sony Group's businesses, with a focus on vision-

application technologies for Sony Group's businesses, with a focus on vision-based lightweight gaze estimation, video-based play-by-play commentary generation, and dialogue-based non-verbal gesture generation.

- Financial Consulting Assistant AI: Help revolutionize remote financial consulting to support Sony Life's life planners and our other financial services. Develop AI-powered solutions to complement nonverbal information, generate consultation summaries, and provide relevant information during customer interactions.
- Healthcare Services: Contribute to the improvement of healthcare services by leveraging Sony's strengths in sensing, UX, data analysis, and machine learning. Our goal is to provide doctors and patients with accurate and non-invasive data to reduce the need to utilize traditional data-collection methods such as questionnaires. In this project, we expand the scope of services to include digital therapeutics (DTx), telemedicine, and remote monitoring.
- Telepresence: Work on a telepresence system that transcends distance limitations, enabling seamless and natural communication between individuals across different spaces. Experience the feeling of being in the same physical space as your colleagues, no matter where you are.
- Agent Platform: Contribute to the construction of an agent platform that integrates our team's cutting-edge technologies and aims to create an ecosystem where end-user creators can generate revenue and foster thriving communities.

If you are passionate about applying deep learning technologies to real-world problems and want to contribute to our groundbreaking projects, we are eager to hear from you. Join our team to unleash your potential and to make a meaningful impact on the world!

[Responsibilities]

- Conduct groundbreaking research and development on cutting-edge machine learning technologies in our target domains, including multimodal AI, vision & language, and human-machine interaction.
- Engage in problem formulation, hypothesis verification, experiment design, simulation, error analysis, data collection, and advanced technology research (among other essential tasks).
- Utilize your expertise in software design, architecture design, interface design, implementation, evaluation, and technology release to create exceptional solutions to proposed problems.
- Lead projects aimed at the development of groundbreaking technologies.
- Deliver comprehensive reports that encompass development plans, progress updates, and tangible outcomes achieved throughout the development process.
- Foster close collaboration with members of the development team, and maintain strong communications with stakeholders responsible for products and services.

[Required qualifications]

- Master's Degree (graduated or currently pursuing) in Computer Science or a related technical field, specializing in computer vision, natural language processing, or machine learning, OR equivalent practical experience.
- 5+ years of hands-on experience with one or more general-purpose programming languages, such as Python, C/C++, and JavaScript.
- 2+ years of research experience in machine learning, specifically related to computer vision or natural language processing.
- Cross-Disciplinary Collaboration: Effective team player and capable of collaborating with professionals from various disciplines. High motivation to make contributions to our business endeavors by working closely with colleagues in marketing, sales, design, and other departments to ensure that our research and development efforts align with our overall business goals.
- Keen interest in, and aptitude for, devising creative, unconventional, and innovative solutions.
- Proficient verbal and written communication skills in English.

[Preferred qualifications]

- Qualification at the Ph.D. level (graduated or currently pursuing) or higher in Computer Science.
- Research experience relating to algorithms, applications, software architecture design, computer graphics, databases, data mining, cloud services, and/or user

- interfaces.
- Practical experience applying machine learning techniques to real-world problems.
 - Expertise developing commercial machine learning services.
 - Willingness to learn Japanese.

[Product, Service]

- Financial Services (Sony Life Insurance, Sony Assurance, Sony Bank)
- Games (PlayStation, smartphone applications)
- Entertainment (Sony Pictures Entertainment, Sony Music Entertainment)
- Sports (Hawkeye Innovation)
- Character Agent Services
- Companion Robots (aibo, poiq)
- Healthcare Services
- Telepresence

[Development Environment]

- Platforms: Windows, Linux, AWS, GCP
- Programming Languages: Python, JavaScript, Rust, etc.
- Computing: private GPU clusters for deep learning, multi-GPU PCs
- Communications: Slack, GitHub, MS Teams, etc.

Stipend Details

Stipend: 10,000 JPY Per Working Day

Accommodation: Yes

Travel Expenses: Yes

Perks / Bonus:

[Stipend]

Bachelor: JPY 10,000/ working day (Net)

Master: JPY 11,000/ working day (Net)

Your stipend will be calculated based on the working day.

Example: If there are 22 working days in a month, net stipend in a month is

Bachelor JPY 220,000 / month (Net)

Master JPY 242,000 / month (Net)

[Other Benefits/Support]

Single rental apartment/hotel with Wifi, Visa, flight, commuting fee, international travel insurance all provided by Sony.

Selection Process

Resume Shortlist: Yes

Written Test: No

Online Test: No

Group No

Discussion:

Personal Interview: Yes

No. of Offers: 2

Selection Process: *To submit CV& Essay is compulsory. Placement Office will share the Essay format.

Eligibility

Diversity Recruiting: No

Eligible Years: Graduating in 2025 (Pre-Final Year Students) - B.Tech / Dual / Master's

Eligible Departments: B.Tech in Biochemical Engineering & Biotechnology, B.Tech in Chemical Engineering, B.Tech in Civil Engineering, B.Tech in Computer Science & Engineering, B.Tech in Electrical Engineering, B.Tech in Electrical Engineering (Power and Automation), B.Tech in Energy Engineering, B.Tech in Engineering Physics, B.Tech in Engineering and Computational Mechanics, B.Tech in Materials Engineering, B.Tech in Mathematics & Computing, B.Tech in Mechanical Engineering, B.Tech in Production & Industrial Engineering, B.Tech in Textile Engineering, B.Tech and M.Tech in Chemical Engineering, B.Tech and M.Tech in Computer Science & Engineering, B.Tech and M.Tech in Mathematics & Computing, M.Sc in Chemistry, M.Sc in Cognitive Science, M.Sc in Economics, M.Sc in Mathematics, M.Sc in Physics, Master of Design in Industrial Design