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KOALA Tech Inc.

Organic Laser Device R&D / OLED Engineer

Kyushu Univ. Deep Tech Startup

Job Information

Hiring Company
KOALA Tech Inc.

Job ID
1524750

Industry
Electronics, Semiconductor

Job Type
Permanent Full-time

Location
Fukuoka Prefecture, Fukuoka-shi Nishi-ku

Salary
5 million yen ~ 9 million yen

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General Requirements

Minimum Experience Level
Over 1 year

Career Level
Mid Career

Minimum English Level
None

Minimum Japanese Level
Native

Business-level communication in either Japanese or English is OK

Minimum Education Level
Bachelor's Degree

Visa Status
Permission to work in Japan required

Job Description

Background

Our technology is expected to become a key foundation for the miniaturization and weight reduction of XR devices and wearable healthcare devices, providing new value to society. We have already been conducting joint research and development with **Mitsui Chemicals, Inc.** and **Sony Group Corporation**, and we are looking towards future collaborations and partnerships with global companies.

As our technology development and business expansion accelerate, we are entering a phase of **full-scale business development with display manufacturers and XR device makers**. To drive this activity, we are looking for talented individuals who can **lead our initiatives**.

We are a **small team** with limited resources, but we offer an **exciting environment** where your work directly impacts results.

If you are eager to **take on the challenge of bringing innovative Japanese technology to the world**, we invite you to join us in shaping the future.

Job Description

You will be responsible for the **structural and material development of OLED technology**, which is central to next-generation display technology. Your role will involve selecting the most suitable materials and realizing ideal structures to develop **cutting-edge foundational technology** that supports the future of displays.

Key Responsibilities

- **Design of deposition materials and multilayer structures** for organic semiconductor laser devices
- **Maintenance and improvement of manufacturing equipment** for organic semiconductor laser devices, ensuring efficient and high-quality device fabrication
- **Training and supporting technical staff**, contributing to the overall improvement of device fabrication quality

This is a great opportunity for those who want to work at the **forefront of OLED technology** and contribute to **the development of next-generation devices**.

Immediate Challenges

Current Initiatives

We are advancing **OSLD (Organic Semiconductor Laser Display) technology**, which integrates and enhances conventional micro-OLED technology, while also strengthening our **patent portfolio**.

Target Clients

- **OLED manufacturers**: Companies seeking to dramatically enhance OLED display performance and meet new market demands
- **Material suppliers**: Companies providing organic materials to OLED manufacturers
- **Semiconductor-related companies**: Companies involved in circuit design and manufacturing of silicon substrates for micro-OLEDs

Approach

- **Strategic IP portfolio development**: Structuring and managing patents related to OSLD technology
- **Joint research with alliance partners**: Supporting technology evaluation, prototyping, and verification
- **Licensing**: Offering licensing agreements to facilitate the commercialization of OSLD technology

Mid-to-Long-Term Challenge

Our **ultimate goal** is the **commercialization of organic lasers**—a groundbreaking challenge. To make organic lasers widely available, we are focusing on **practical implementation and optimization**.

Your expertise will be a driving force in **creating new value** and pioneering the **future of organic laser technology**. Be part of a team delivering the **world's first organic laser device** and help bring this ambitious vision to reality!

Why Join Us?

At **KOALA Tech**, you will work in an **international environment**, leveraging your expertise in **lasers and organic electronics** to develop innovative technologies that create real social impact.

We are closely connected with **Kyushu University's OPERA (Center for Organic Photonics and Electronics Research)**, led by **Professor Chihaya Adachi**, a leading figure in OLED research. You will have access to **state-of-the-art research infrastructure**, allowing you to enhance your skills while working on cutting-edge projects.

Join us in **pioneering new markets**, pushing beyond the limitations of conventional technology, and advancing the development of **next-generation organic semiconductor laser devices**. We are looking for passionate engineers eager to **help bring this breakthrough technology to the world**.

Team & Work Environment

- **Engineering Team**: 4 members (Japanese, French, Iranian, and Indian engineers)
- **Diverse Workforce**: 28% of employees are foreign nationals, and 42% of employees are women (as of October 2024, including executives).
- **Highly Skilled Team**: Includes **PhD holders and professionals from major corporations**, providing a dynamic and stimulating work environment.

Work Location

Fukuoka City, Japan
Kyushu University Academic Research and Industry-Academia Collaboration Center

Room 215, 4-1 Kyudai-Shinmachi, Nishi-ku, Fukuoka

Employment Details

- **Position**: Full-time
- **Probation Period**: 6 months
- **Annual Salary**: ¥5,000,000 – ¥9,000,000 (stock options included)
- **Monthly Salary**:
  - ¥5,004,000/year → ¥417,000/month (¥361,600 base + ¥55,400 fixed overtime)
  - ¥9,000,000/year → ¥750,000/month (¥650,400 base + ¥99,600 fixed overtime)
- **Fixed Overtime**: Includes **20 hours/month** (overtime exceeding this will be compensated separately)
- **Actual Overtime**: Currently, most engineers work **with zero overtime** due to our focus on efficiency and work-life balance.
- **Bonus**: Not applicable
- **Salary Review**: **Annual (May)**, based on the previous year's performance
- **Remote Work**: **Onsite preferred**

Hiring Process

1. **Document Screening**
2. **Two Interviews**
   - **First round**: Online
   - **Final round**: In-person (Fukuoka HQ)
3. **Offer Meeting** (includes aptitude test)

Support for Candidates:

- **Travel expenses** covered for interviews
- **Relocation assistance**: Case-by-case basis (negotiable)

Required Skills

Required Qualifications

Candidates must meet **one or more** of the following criteria:

- **Experience in at least two of the following areas:**
  - Supervising technical support staff in device fabrication
  - Working in OLED development
  - Filing patents or publishing research papers in relevant technologies
- **Experience in OLED research during university studies or postdoctoral research**

Preferred Qualifications

- Master's degree or higher in a related field, such as **materials physics, applied physics, optics, electrical engineering, photochemistry, or physical chemistry**
- Comfortable communicating in **English** (using translation tools or dictionaries to collaborate with the engineering team is acceptable)
- Ability to work in a **results-driven environment**, adapt to **changing priorities**, and manage **deadlines effectively**
- **Strong documentation skills**, including internal technical reports and reports for external partners

Company Description