CareerCross by JAC Recruitment

KOALA Tech Inc.

Organic Laser Device R&D / OLED Engineer

Kyushu Univ. Deep Tech Startup

募集職種

採用企業名
株式会社KOALA Tech

求人ID
1524750

業種
電気・電子・半導体

雇用形態
正社員

勤務地
福岡県, 福岡市西区

給与
500万円 ~ 900万円

更新日
2025年03月07日 16:34

応募必要条件

職務経験
1年以上

キャリアレベル
中途経験者レベル

英語レベル
無し

日本語レベル
ネイティブ

Business-level communication in either Japanese or English is OK

最終学歴
大学卒： 学士号

現在のビザ
日本での就労許可が必要です

募集要項

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)

スキル・資格

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

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会社説明