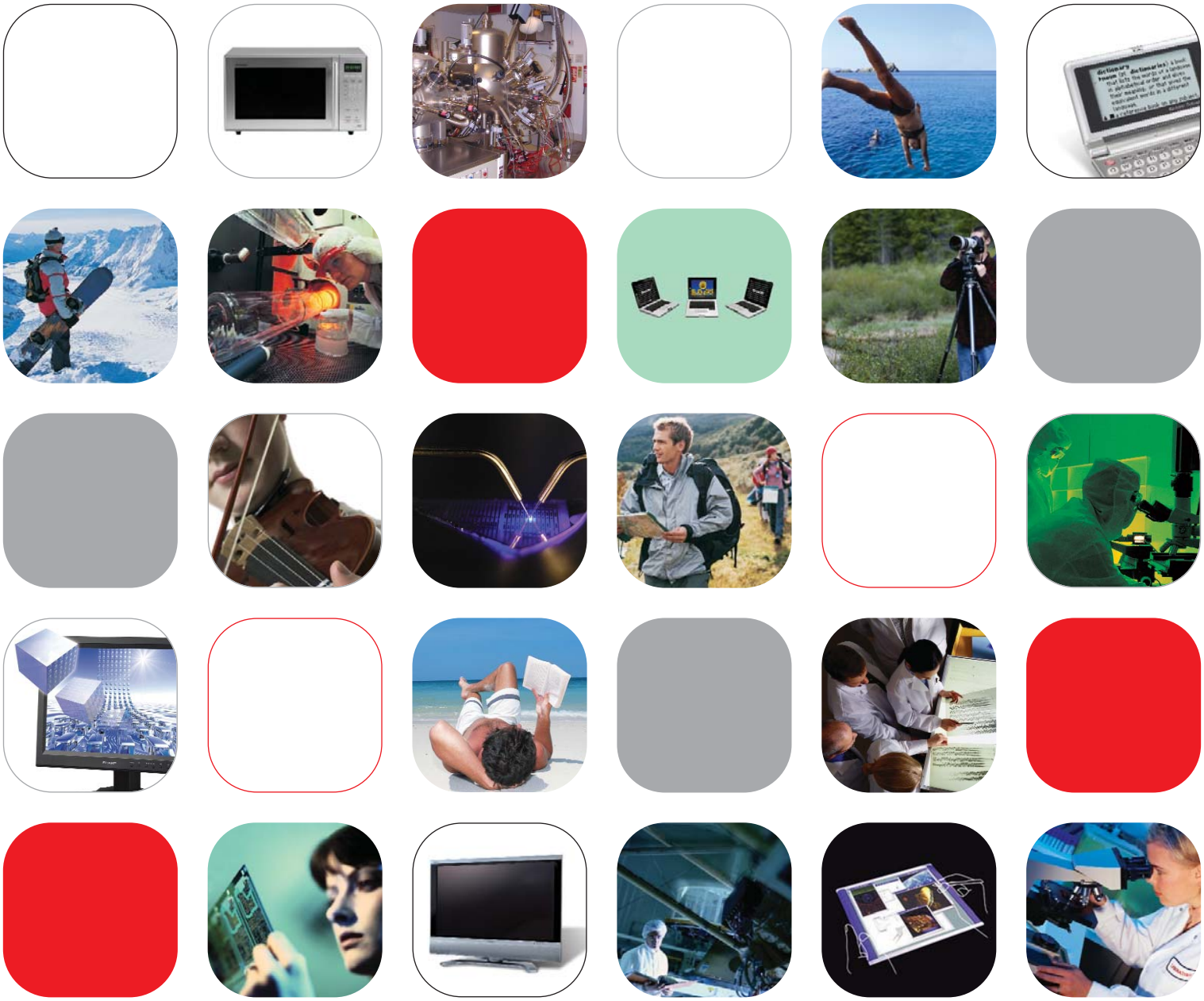

Sharp Laboratories Europe
graduate opportunities

The global market for consumer electronics products is now worth in excess of a hundred billion dollars. It is experiencing impressive growth that is vitally important to the global economy and presents a wealth of opportunities to skilled workers from a variety of backgrounds.

If you are an ambitious engineering, computing or science graduate, or expect to become one, you might have what it takes to join Sharp's team of highly skilled graduates and help address the needs of this exciting market by developing a new generation of industry-leading technology ideas.

SHARP

www.sle.sharp.co.uk

Sharp today

Sharp has come a long way since 1912, when it opened as a metal works in Tokyo. It is now an instantly recognisable worldwide consumer electronics giant.

But Sharp is more than just a badge for high-quality consumer electronics. It is a powerful force of innovation, both developing world-leading technology for its own consumer products and supplying its world-leading technology to other companies to enable the success of many other consumer brands.

In fact, many of us regularly use Sharp technology without actually recognising it as Sharp technology. In addition to being the leader in the LCD TV market with its hugely popular Aquos brand, Sharp is the company that invented the camera phone. It is the world-leading provider of photovoltaic solar panels, which are estimated to generate a combined power output in excess of 600MW per year in a market that is still relatively new.

It is a commitment to innovation that drives Sharp's worldwide success. Innovation isn't just borne from creative thinking and technological expertise; it is informed by an understanding of customers and their needs. Innovation is the reason why Sharp needs to continuously recruit the very best people – the technology research business leaders of the future.

Sharp Laboratories of Europe

Sharp Laboratories of Europe is enjoying steady growth as part of a global network of laboratories owned and funded by Sharp of Japan. Its role within Sharp is to generate ideas that enable technology that sells. Sharp Laboratories of Europe's business vision and technological expertise have resulted in successful Sharp products all around the world, for applications ranging from mobile phones, laptops and smart cards to personal computers, displays for cars and translation software.

Its technology researchers are based in a purpose-built laboratory on the Oxford Science Park where they are given all the cutting edge resources they need to convert their ideas into world-beating technologies that open up consumer markets: everything from cleanrooms to optics labs, from MBE machines to electron microscopes.

There are many advantages of being a Sharp Laboratories of Europe employee. In addition to a competitive benefits package, the company provides a subsidised restaurant, tennis facilities, free membership of Oxford City Council's sports and leisure centres, discounted purchases of Sharp products and access to the latest journals and textbooks on various subjects relevant to business and research.

Oxford itself is an exciting city that offers many cultural attractions and a vibrant nightlife. Sharp has a relocation policy to assist people moving into the area. Sharp has a strong relationship with Oxford University; there are plenty of opportunities for employees to network with appropriate research teams.

Sharp firsts

Sharp Laboratories of Europe is the innovative force behind many of the electronic products that people use on a daily basis. Among its many successes, Sharp was the first company to...

- **1st** Mass-produce an LCD capable of switching between 2D and 3D viewing, functionality that can be used in PC monitors and mobile phone screens. This prompted a new industry focus on 3D and the establishment of a global 3D consortium.
- **1st** Use neural networks in a consumer electronics product, developing a smart microwave oven application from concept to product.
- **1st** Develop a directional display LCD technology for volume production. This IP-protected innovation is still creating new display markets and applications, and has already been commercialised in Japanese automotive markets.
- **1st** Make a blue-laser diode through the efficient process of molecular beam epitaxy (MBE). This technology is a major contribution to new visible lasers for DVD and lighting applications.
- **1st** Create an integrated sensor on panel, enabling an LCD to interact directly with its environment. This creates new market opportunities by revolutionising the mobile multimedia experience.
- **1st** Develop an automatic multilingual letter generator included on a dedicated word processor, an intelligent dictionary with context-dependent translation aid software and spelling correction and anagram solving software used in the world's most comprehensive handheld electronic dictionary.






your graduate programme

If you want to help create the next generation of Sharp firsts, and get satisfaction from seeing consumers enjoying technology that you helped to develop yourself, then Sharp Laboratories of Europe is the place for you. Its purpose-built laboratories in Oxford give you the opportunity to unleash your creativity and innovation within the supportive framework of a respected global electronics leader.

Sharp: one big team

The environment at Sharp is one that encourages teamwork, to ensure that employees find their work rewarding and can cross-pollinate the ideas that contribute to billion-dollar innovation. As a Sharp graduate employee, you will be given the opportunity to collaborate with:

- Partners at leading universities, including Oxford, Cambridge, Edinburgh and Bristol
- Marketing, development and manufacturing personnel in Japan, Europe and the USA
- Customers and suppliers: both startups and multinationals
- Colleagues from different countries, with different technical backgrounds and approaches to their work.

To develop you to your fullest potential, Sharp offers broad training in technical, commercial and interpersonal skills. Sharp's aim is to give you a solid appreciation of the business context in which you will operate, helping you to recognise ways to give it a lead in the market and understand the full process involved in turning a laboratory concept into a high-volume product.

who is Sharp looking for?

Sharp is recruiting future leaders in the business of technology research – ambitious, highly motivated engineering, science or computing graduates who share its passion for turning great ideas into successful products.

Alongside its graduate programme, Sharp is also recruiting for vacancies within specific research groups. These are often open to candidates with post-graduate qualifications.

broaden your horizons

Sharp graduates are given time to experience all of our research activities and develop broad skills and knowledge before they make informed decisions about their research specialties. Here are some of the research fields that may capture your imagination in the next few years:

optoelectronics
Sharp Laboratories of Europe has helped Sharp maintain its current position as a world leading manufacturer of optoelectronic components, including lasers and LEDs. The laboratory has world class expertise in the fabrication of optoelectronic devices and is a world leader in blue lasers. The technology is vital for further developments in next generation DVD, such as Blu-ray, and in new technologies for energy efficient LED lighting.

information technology
Sharp Laboratories of Europe creates further business opportunities for Sharp by researching hardware and software technologies for digital information appliances, including LCD televisions and mobile phones. The Information Technology and Systems Group is a diverse group that has a long history of technology transfer to other parts of the corporation. Presently, it is focusing on translation technology and e-learning for e-learning for English as a second language.

optical imaging
Next-generation display technology research helps Sharp remain a world-leading supplier of the LCDs used in everything from mobile phones to large-area flat-panel TVs. Sharp Laboratories of Europe's innovation is behind a number of technological breakthroughs in this field, enabling the world's first high-resolution full colour reflective LCD and the world's first mass-produced electrically switchable 2D to 3D displays. New innovations include shared view and view restriction technologies.

system on panel
Sharp's world-beating reputation as an LCD pioneer is built partly on its research into next generation Thin Film Transistor display technology. Together with Semiconductor Energy Laboratories, Sharp has developed Continuous Grain Silicon, which results in more reliable, higher performance LCD modules with increased display functionality. This technology promises entire electronic products integrated on a single substrate for the gadget lovers of tomorrow.

talk to us

If you have a degree or will soon graduate in engineering, computing or science, and these opportunities sound interesting to you, then we would love to hear from you.

Call us on **+44 1865 747711** or email **jobs@sharp.co.uk**

More information is available at www.sle.sharp.co.uk

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