The University of Essex has been breaking boundaries for fifty years. Now our wealth of expertise is helping to drive business forward across a range of sectors from technology to the creative industries. Tap into our world-leading consultancy and get practical support for your business or organisation. We call our business community the Knowledge Gateway. It’s where experts collaborate, great ideas are developed, and where businesses prosper.

Use our knowledge:

SCIENCE AND TECHNOLOGY
BENEFIT FROM ADDED INTELLIGENCE
Backed by an international reputation for producing outstanding quality research in robotics and intelligent systems, our expertise is helping tech companies exploit the full potential of their intellectual property to unlock commercial potential. Our intelligent systems’ knowledge covers artificial intelligence, brain-computer interfaces, intelligent control and learning algorithms. We have robotics testing spaces, state-of-the-art labs, iOS/Android devices for development and an optic motion tracking system to develop and test. We cover a diversity of disciplines including human-centred robotics, laser processing, fusion, artificial intelligence, machine learning, self-organisation, and human/machine interaction. When it comes to future technologies we’re ahead of the game.

ENVIRONMENTAL EXPERTISE
Let our expertise in the environmental sciences and resource management support your company’s objectives – across soil, marine and air. Backed by a strong research focus on a wide area of environmental and biological disciplines, we can offer consultancy and expertise in many areas. These include interaction between microbes with plants and animals, how species adapt and environmental conditions shift, productivity and biodiversity, the pairing of biological process and the environment, using state-of-the-art techniques drawn from disciplines such as bio-imaging, molecular biology, bioinformatics to support a wider environmental understanding for organisations. If you need the expert view on air pollution, our expertise covers the physico-chemical properties of aerosols, indoor air quality and health impacts of aerosols, plus nanoparticles in the environment and environment. Our environmental experts can also test and analyse samples for toxicity, microbial diversity and assessments of water, air and soil quality.

BOOSTING AGRICULTURAL PERFORMANCE
Our plant science expertise is at the forefront of understanding the issues in agribusiness. Our teams of expert plant physiologists and molecular biologists combine accurate monitoring of crop performance and plant health, using innovative non-invasive imaging techniques, to monitor plants and focus on genetic manipulation. With expertise in crop screening for a range of developmental and physiological responses, we can advise on crop stress and spoilage, and the use of LED lighting technologies to improve crop yield – taking a ‘whole organism’ approach to identify key genes and processes that determine productivity in plants.

Use our knowledge:

SCIENCE AND TECHNOLOGY

CASE STUDY – VACUAMATIC LTD
Colchester based SME, Vacuumatic Ltd, is an expert in the design and manufacture of counting equipment for the paper and print industries. The company specialises in high-accuracy optical counting machines for security-sensitive applications, but felt the system they’d developed had further potential to be more commercially exploited. So, they worked with the University’s robotics group via a Knowledge Transfer Partnership to devise a new cost-effective imaging system, that’s now implemented in their product line.

Next Steps
To find out more about how our business knowledge can help boost your organisation, please telephone: 01206 872922 or email: business@essex.ac.uk and visit www.essex.ac.uk/business for further information.