

# Cambridge

## Ideas that change the world

Isaac Newton, Charles Darwin, Crick and Watson, Stephen Hawking – some of the most famous of Cambridge's scientists whose ideas have changed the world. And the city continues to develop and attract some of the finest scientific minds. These scientists continue to make startling new discoveries and it is their work, when commercialised, which is one of the secrets behind Cambridge's success and growth. The city is also a magnet for highly qualified engineers, scientists, business and commercial people, and for companies looking to set up research organisations or to acquire Cambridge companies.

Such has been its growth, the term 'Cambridge Phenomenon' is used freely to describe the incredible explosion of technology companies that has occurred in the city since 1960. Of the companies that scaled up to reach over \$1bn market capitalisation each, ARM has achieved a market capitalisation of over \$20billion.

The High-tech, Medical, Life Sciences, Engineering, Clean-tech, Agri-tech and Consumer product firms located in Cambridge make for an impressive list. Here are just some of the organisations:

### CONSUMER

#### ARCAM

A world-class developer & manufacturer of Home Music & Cinema Systems with a pedigree of over 40 years. Started by two engineering students from Cambridge University.

#### CAMBRIDGE SACHEL COMPANY

Global accessories brand started with just £600 and now turns over £10m. Selling to over 120 countries. Attracted \$21m investment from Index Ventures in Jan 2014.

#### MERIDIAN AUDIO

Designs, engineers and manufactures state-of-the-art entertainment systems. Passion, innovation & commitment to quality has made it one of the most revered audio brands in the world today.

#### HOTEL CHOCOLAT

Began selling chocolates online in 1993, and one of the UK's earliest ever 'e-tailers'. It is now Britain's best-known luxury chocolatier with over 80 stores and a factory in the Cambridge region. T/o: £76m.

### CLEANTECH

#### BREATHING BUILDINGS

A tech spin-out from Cambridge University. E-stack natural ventilation systems are now operating in '00s of buildings across the UK, from retail projects to local primary schools.

#### ENVAL

University of Cambridge spin-out and a leader in recycling & environmental technologies. Develops unique recycling processes that provide alternatives to landfilling.



### LIFE SCIENCES

#### ILLUMINA

World-leader in genomics. A developer of life science and genetic analysis tools. Formerly Solexa, acquired by Illumina in 2006 for \$650m. T/o: £204m.

#### ABCAM

A leading supplier of research tools to life scientists for biological research. Products include antibodies, biochemicals, proteins, peptides, lysates, & immunoassays. T/o: £128m. Market cap: £1.16bn.

#### HORIZON DISCOVERY

One of the fastest-growing biotech companies in Europe. Supplies products, services & research programmes to over 1,000 customers in 50 countries. Market cap: £169m.

#### NAPP PHARMACEUTICALS

Manufacturer of analgesic, oncology and respiratory products. Privately-owned and part of the Mundipharma worldwide network of independent associated pharmaceutical companies.

#### ASTRAZENECA

One of the largest pharmaceutical companies in the world. Moving to new £330m Global R&D Centre & HQ in Cambridge at end-2016. R&D will focus on oncology and other key diseases. Market cap: £54bn.

#### MEDIMMUNE

Merged with former Cambridge Antibody Technology (CAT) which was acquired for \$1.3bn in 2006 by AstraZeneca, and is now its wholly-owned subsidiary. A world-leader in protein engineering and biologics drug development.

Nanotherm's thermal management solutions help increase LED efficiency. Image: Shutterstock



Image: The Cambridge Satchel Company

### NON-CORPORATE KI\*

#### THE BABRAHAM INSTITUTE

A world-class research institution within the Babraham Research Campus, focusing on basic cell and molecular biology with an emphasis on healthy ageing through the human lifecycle.

#### MRC LABORATORY OF MOLECULAR BIOLOGY

A world-leading medical research institute whose scientists have been awarded an incredible 10 Nobel prizes. Discoveries through technology transfer have generated over £330 million of commercial income.

#### CANCER RESEARCH UK CAMBRIDGE INSTITUTE

One of the largest cancer research facilities in Europe, forming a bridge between the world-class science of the University, the hospital, and other institutes on the Biomedical Campus.

#### WELLCOME TRUST SANGER INSTITUTE

A global leader in the Human Genome Project. Has made some of the most important advances in genomic research, developing new understanding of genomes and their role in biology.

\*Knowledge-intensive

Wellcome Trust Sanger Institute. Image: Sanger Institute



Chimaera – a unique surgical tool. Image: Cambridge Consultants

### MATERIALS

#### THE WELDING INSTITUTE

A leading global, professional engineering institution responsible for the registration and certification of welding and joining. A renowned research & technology centre. T/o: £76m.

#### CAMBRIDGE NANOTHERM

Produces the industry's most efficient thermal management technology for LED applications & high powered electronics. Winner UK Cleantech Awards 2011, runner-up Global Cleantech Awards 2012.

#### JOHNSON MATTHEY

A leading speciality chemicals company, a leader in sustainable technologies, and experts in the application and recycling of precious metals.

#### JDR CABLE SYSTEMS

A leading provider of technology for the global offshore energy industry. Its high performance subsea control umbilicals and subsea power cables operate in the world's harshest environments. T/o: £88m.

#### HEXCEL COMPOSITES

Specialist developer and manufacturer of composite materials and adhesives for aerospace and other high performance industries. T/o: £376m. Owned by Hexcel Corp (USA).

### TECH CONSULTANCIES

#### CAMBRIDGE CONSULTANTS

World-class supplier of innovative product development engineering and technology consulting from idea conception to production. T/o: £56m. Owned by Altran Technologies.

#### THE TECHNOLOGY PARTNERSHIP

World-leading technology & product development company. Sectors include drug discovery and lab instrumentation, wireless comms, digital printing, electric vehicles, digital radio, F&B, and micro-devices. T/o: £44m.

#### SAGENTIA

A global science, technology and product development services company, working across the consumer, industrial, medical and oil & gas sectors. T/o: £28m. Market cap: £56m.

#### PA CONSULTING

An international consulting, technology and innovation firm working across a range of market sectors, including healthcare, communications, consumer products, defence & security.



Image: Raspberry Pi

Image: NIAB



### ENGINEERING

#### DOMINO PRINTING SCIENCES

Global reputation for the development & manufacture of its continuous ink jet, scribing laser & other technologies including digital colour label press. Market cap: £1bn. Acquired by Brother Industries Ltd in 2015.

#### MARSHALL AEROSPACE

UK's largest independent aerospace and defence company. Carries out maintenance, modifications and design for many global military and civilian aerospace firms. Owns and runs Cambridge Airport. T/o: £295m.

#### XAAR

World leader in digital inkjet technology such as graphics, labels, packaging decoration, ceramic tiles, laminates, & outer case coding. T/o: £109m. Market cap: £368m.

### AGRITECH

#### G'S GROUP

Independent Producer Organisation. Members are able to share expertise, experience and knowledge to allow them to take advantage of economies of scale to ensure the efficient supply and year-round availability of quality produce.

#### NIAB

A pioneering plant science organisation of the Cambridge science, technology & university community. Uniquely able to take new genetic developments through agronomy to the farmer's field.

Image: Domino Printing Sciences



### ICT

#### ARM PLC

The world's leading semiconductor intellectual property supplier. In 95% of all mobile phones, 80% of digital cameras & 35% of all electronic devices. 60bn chips shipped. Market cap: £16bn.

#### AVEVA

Leading Engineering software provider for the Plant & Marine industries. Customers include the top 10 energy & chemical companies. T/o: £237m. Market cap: £1.23bn.

#### CSR

Cambridge Silicon Radio. Designs & manufactures single-chip radio devices. Core technology includes Bluetooth® Smart & Connectivity. T/o: £497m. Market cap: £1.5bn.

#### MICROSOFT RESEARCH

Computer science research. Developments include the body part recognition technology in Kinect for Xbox 360, and the advert prediction algorithm used in Bing. T/o: £39m.

#### SEPUTA

Global leader in the design, supply & manufacture of digital radio products, systems & applications. Sectors: public safety, transport, utilities, oil and gas, manufacturing. T/o: £96m. M/c: £297m.

#### JAGEX

Multi-award winning games developer of over 40 online titles, including RuneScape. Globally-recognised reputation for developing hugely popular, free-to-play games. T/o: £47m.

#### RASPBERRY PI

Award-winning developer of a \$25-35, credit-card sized computer which plugs into a monitor or TV that helps adults and children learn programming. 5m sold worldwide.

#### REAL VNC

With over 1bn copies, it is the *de facto* standard for remote control. The most widely-ported application software, it is an official part of the internet.

#### HP AUTONOMY

A global leader in analytical software. Acquired by HP in 2011 for \$11.1bn. Processes unstructured data. 20,000+ customers & 6m+ consumer users.

#### BANGO

Mobile payment platform. The global standard for app stores to offer carrier billing. Customers include Amazon, Facebook, Microsoft and Google. T/o: £5m. Market cap: £56m.



Image: ARM