

utc cambridge
Delivering Future Scientists

**a science college for
14-19 year olds**



**University
Technical
Colleges®**

**Biomedical &
Environmental Science**

prospectus 2015/2016

WELCOME

UTC Cambridge is an exciting new concept in education. Supported by world-class partners, it provides a dynamic and inspirational curriculum closely aligned to the needs of the local and national labour market in Biomedical and Environmental Science and Technology. Our new building contains sector-leading facilities.

Our innovative, project-based approach to learning will ensure that every student is fully prepared with the necessary qualifications and skills to excel as they progress to higher education, apprenticeships, further training or directly into employment.

Melanie Radford
Principal



“The UTC is much welcomed to help ensure a local workforce with relevant skills. As a major employer within Cambridge it is in our interest to be involved in this exciting development. We take our corporate social responsibility seriously and wish to offer input into the future training and employability of young people in our community.”

Cambridge University Hospitals NHS Foundation Trust

2014/15 Open Days

Saturday 18 October 10am - 1pm

Tuesday 18 November 5.30 - 8.30pm



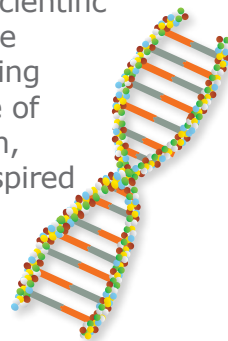
UTC Cambridge is one of the most exciting innovations to take place in education, offering specialist science education to a generation ready to become part of the global network of biomedical and environmental science and technology professionals.

Based in Cambridge, home to one of the world's leading Biomedical Campuses, UTC Cambridge delivers an

education supported at every stage by leading employers and research centres.

Cambridge's reputation in science and technology is world-renowned: affiliates of the University of Cambridge have won more Nobel Prizes than any other institution – 89 in total, including 29 in Physics, 26 in Medicine and 21 in Chemistry.

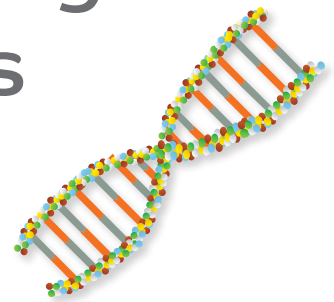
In a city where Crick and Watson discovered the molecular structure of DNA – one of the greatest breakthroughs in scientific history – and where scientists are working at the cutting edge of life-saving research, students will be inspired to achieve above and beyond their expectations.



Bespoke Learning – Delivering Innovative Future Scientists

Students learn in state of the art science facilities adjacent to Cambridge's Biomedical Campus.

Leading bioscience
and ecotech
companies in and
around Cambridge
are partners with
UTC Cambridge



“Cambridge Region with a long tradition of the UTC because 14 to the world of work and university partners, and but also gain in-depth specialisms are in Science this exciting innovation

Cambridge Regional



being Curious about Science

University Technical College is passionate about learning that connects to the real world, of high quality technical and professional education. We are the lead sponsor 14-19 is the best time to develop an understanding of how your learning relates to your future career. University Technical Colleges, with their employer and industry partners, are exceptional institutions where you can continue your general education and gain knowledge and skills for careers in particular sectors. UTC Cambridge's focus is on science, for which the city has a global reputation. We are proud to be part of providing exceptional educational opportunity for young people. ”

College

WHY?



A UTC?

University Technical Colleges offer a unique opportunity for education and business to come together to develop the skills needed by industry. UTCs are sponsored by employers, university bodies and colleges and offer young people aged 14 to 19 an innovative, specialist education to the highest standard.

Biomedical Science?

Cambridge Biomedical Campus is at the very heart of world-leading research and development into new treatments and drugs for life-threatening conditions.

Biomedical scientists carry out vital laboratory and scientific tests needed to diagnose and treat disease, performing a key role in screening for diseases and monitoring the effects of medication and other treatments.

STEM?

To inspire young people in Science, Technology, Engineering and Mathematics.

There are over 800 STEM ambassadors in the Cambridge vicinity, many of whom will be supporting our Challenge Projects and mentoring our students through their transitions.

Cleantech?

Cleantech is a new industry sector with over 500 early stage innovators.

Cleantech supports the growth of environmental and sustainable goods and services.



“ Cambridge University Health Partners (CUHP) is proud to be sponsoring the UTC Cambridge because the University and its NHS partners have a major role as employers supporting the local health and biomedical-based economy. ”

Cambridge University Health Partners

UTC PARTNERS

The UTC Cambridge is backed by major organisations at the heart of Cambridge's success as a centre in biomedical and environmental science and technology.

MEDICAL RESEARCH COUNCIL

The Medical Research Council is dedicated to improving human health through research. Its scientists have won 27 Nobel prizes in 100 years of life-changing discoveries.

The pioneering MRC Laboratory of Molecular Biology, a £212 million centre, is next door to the UTC Cambridge.

CAMBRIDGE UNIVERSITY HEALTH PARTNERS

Cambridge University Health Partners is one of only five Academic Health Science Centres in England, recognised as internationally competitive centres of excellence, driving the partnership between the National Health Service and the University of Cambridge to improve patient care.

WELLCOME TRUST SANGER INSTITUTE

The Wellcome Trust Sanger Institute is a world-leading centre of genome sequencing and analysis, spearheading the UK contribution to the Human Genome Project.

NAPP PHARMACEUTICALS

Napp Pharmaceuticals is a world-leader in pain control and one of the most successful pharmaceutical companies in the UK.

BABRAHAM INSTITUTE

The Babraham Institute is a world leader in pioneering research into the principles of epigenetic gene regulation. By determining how the body reacts to dietary and environmental stimuli, scientists hope to improve lifelong wellbeing and healthier ageing.

CAMBRIDGE REGIONAL COLLEGE

Cambridge Regional College is a leading centre of vocational excellence for 16 to 19 year-olds, with one of the most successful apprenticeship programmes in the country. It has 4,000 full-time and 6,000 part-time students and more than 3,500 apprentices currently in training, based at a multi-million pound purpose-built campus with outstanding facilities on the Science Park.

CAMBRIDGE CLEANTECH

Cambridge Cleantech is working to develop the UK as a centre of excellence for the cleantech sector, promoting collaboration between higher education, the scientific and research community and the cleantech sector.

ZEISS

Zeiss has been contributing to technological progress for more than 160 years - working with semiconductors, automotive and mechanical engineering as well as being an international leader in optics and opto-electronics.

MEDIMMUNE

MedImmune is leading the way in the development of monoclonal antibodies to complement traditional medicine. MedImmune is the biologics research and development arm of AstraZeneca.

PARKSIDE FEDERATION ACADEMIES

Parkside Federation Academies runs Coleridge Community College, Parkside Community College and an international sixth form, Parkside Sixth. Its goal is to establish its partnership schools as lifelong centres of excellence.

AMEYCESPA

AmeyCespa has over 40 years of international experience in waste management, with an emphasis on pioneering new technologies. It is at the forefront of waste management developments.

LONG ROAD SIXTH FORM COLLEGE

Long Road Sixth Form College is a high quality 16+ education institution dedicated to the pursuit of excellence. It specialises in the provision of A level, GCSE and vocational programmes for 16-19 year old full-time students.

LGC

LGC is an international life sciences measurement and testing company. LGC underpin the safety, health and security of the public for customers in pharmaceuticals, agriculture, food & environment, government & academia, security and sports markets.

“The new technical college will fill a significant gap in educational provision in the Cambridge area for 14 to 19 year-olds.”

Parkside Federation Academies

29 scientists backed by the Medical Research Council have won Nobel Prizes



MRC Laboratory of Molecular Biology



“ The MRC supports seven research units in Cambridge, on or near the Cambridge Biomedical Campus, employing or training nearly 1,000 scientists, support staff and research students. We would be able to support the UTC in a number of ways, including providing input to the curriculum and providing specialists to speak to learners. ”

Medical Research Council

CHALLENGE PROJECTS

A fundamental part of UTC Cambridge's curriculum includes Challenge Projects, a practical new way of learning.

Masterclasses
Science Superlabs
Challenge Projects
Industry Mentors

Cambridge leads
the way on research
and innovation.

Each challenge requires students to use a variety of different skills to solve real problems identified by local employers.

These challenges enable students to see how their academic and practical study can be applied to solve real-world problems. They also allow students to understand the variety of careers available to them.

The curriculum has been designed with our sponsors to ensure students have the skills, qualifications and experience employers need.

Work experience is also an important part of each course, providing students the opportunity to work in some of the region's top biomedical and Cleantech organisations.



CURRICULUM*

14-16 (Key Stage 4)

CHALLENGE PROJECTS

GCSE CORE SUBJECTS (E Bacc Subjects)

Maths

English Language

English Literature

Biology

Chemistry

Physics

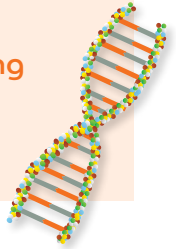
Geography

Computer Science

Spanish

Did you know....?

The world's first test-tube baby, Louise Brown, was born as a result of pioneering work in Cambridge.



FOR ALL STUDENTS

Technical & Professional

OCR Cambridge Nationals Level 2

Science

Business

Engineering Design

Challenge Projects

Duke of York Award
for Technical Education

Bronze or Silver

*Subject to exam body revisions

CURRICULUM*

16-19 (Key Stage 5)

CHALLENGE PROJECTS

LEVEL 3 A Levels subjects

Biology
Chemistry
Physics
Geography
Computer Science
Maths
Further Maths

LEVEL 3 Technical & Professional

**BTEC
Extended
Diploma**
Applied Science
(Biomedical Science or
Environmental Science)

or Individually Taught



FOR ALL STUDENTS

LEVEL 3 Combined

**BTEC
Diploma**
Applied Science
(Biomedical Science or
Environmental Science)

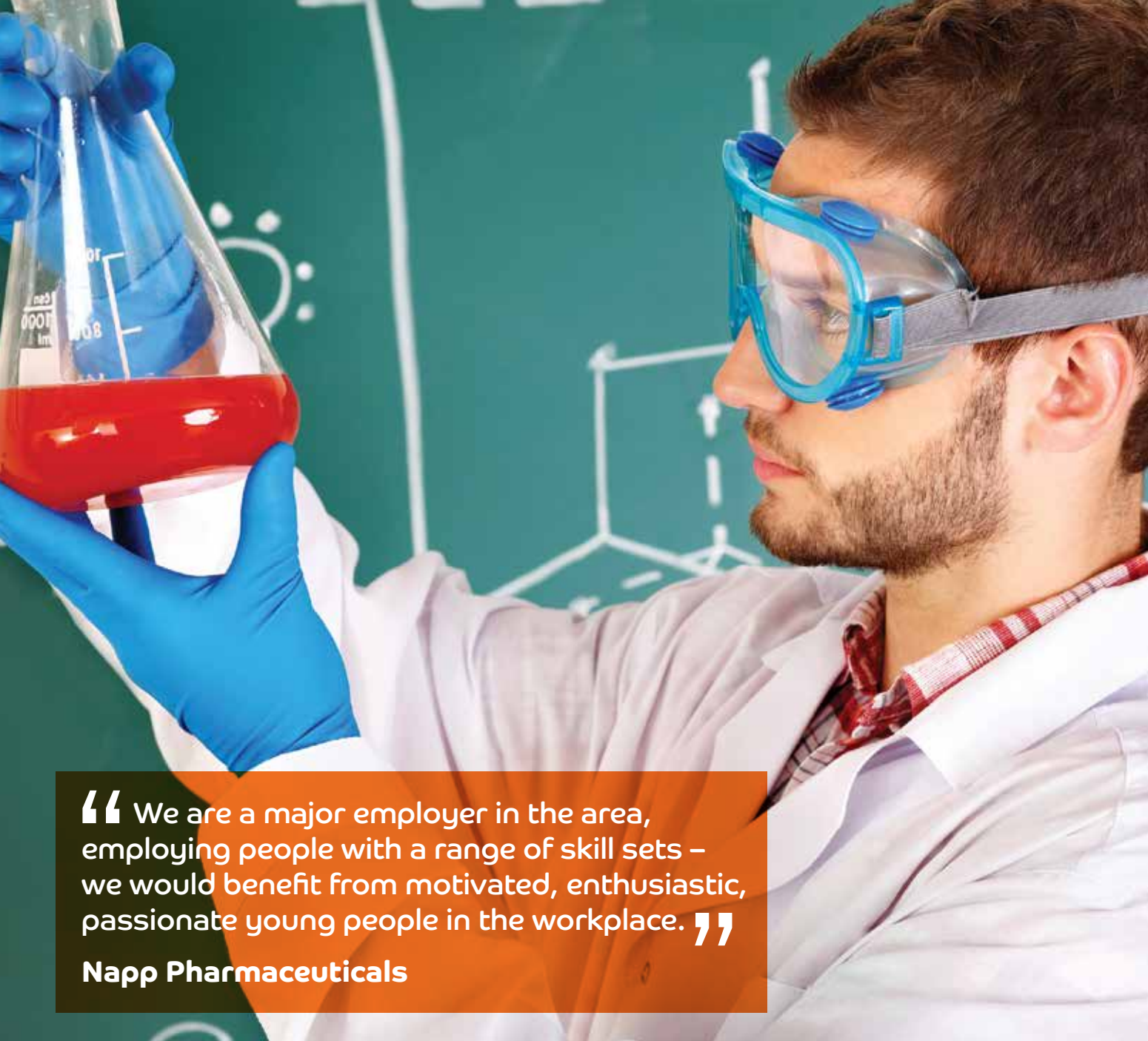
A Levels

LEVEL 2 1 Year

GCSE Retakes
English
Maths
Biology
Chemistry
Physics

*Subject to exam body revisions

Filtered Programme



“ We are a major employer in the area, employing people with a range of skill sets – we would benefit from motivated, enthusiastic, passionate young people in the workplace. ”

Napp Pharmaceuticals

PROGRESSION

Students graduating from UTC Cambridge will be exceptionally well prepared to progress into higher education, work or an apprenticeship, ready to build careers that contribute to scientific achievement.

University

Graduating from UTC Cambridge will give you a head start when choosing a university. Our Challenge Projects will give you outstanding preparation in the skills you need to excel at university.

Apprenticeships

Our sponsors are highly supportive and expect to offer opportunities to UTC students. Our work-based learning at sponsor sites fully prepares students for an Apprenticeship. Apprentices are paid while they train, attending college one day a week and learning hands-on in the workplace as they gain valuable qualifications. This offers an alternative route to higher education, often sponsored by the employer.

Jobs

The Cambridge area is full of highly successful employers ready to take on new staff. Students leave UTC Cambridge with impressive qualifications and professional level experience.

Example Careers in

- **Medical Industry**
- **Scientific Research**
- **Environmental Technology**
- **Pharmaceutical Industry**
- **Engineering**
- **Cleantech**

Example Job Roles

- **Laboratory Technician**
- **Theatre Nurse**
- **Paramedic**
- **Research Scientist**
- **Scientific Facilities Manager**
- **Utilities Technician or Manager (Water, Electricity, Waste)**
- **Environmental Technician**
- **Environmental Auditor**

ICT INFORMATION COMMUNICATION TECHNOLOGY

UTC Cambridge will be one of the most technologically impressive teaching facilities in the area.

Using eduroam, all UTC Cambridge students have internet connectivity across the campus and when visiting supporting institutions.

Students can access the internet through a single wi-fi portal on their own media devices.

Google classroom allows teachers to create and collect assignments paperlessly. Students can keep track of what's due and begin working with just a click.

An impressive video wall (nine 55' flat screen TV's) in one of the largest lecture halls in Cambridge.

Office 365 applications are available for all students and staff.

“ Developing this area for young students who aspire to work in a research environment can only be seen as an excellent opportunity. ”

**Wellcome Trust
Sanger Institute**

Using eduroam allows all students to access wifi when in Cambridge city.



FAQs

How old do I need to be to study at UTC Cambridge?

We are currently recruiting Year 9 students to join us in September 2015. We are also taking applications from current Year 11 students who would like to join us for year 12.

How long would I stay at UTC Cambridge?

We expect students joining in Year 10 to stay until they enter university or employment at the end of Year 13. Similarly, those joining in Year 12 should complete at the end of Year 13.

How much will it cost to attend UTC Cambridge?

Nothing. All students under the age of 19 will be fully funded by the Government.

What will the hours of UTC Cambridge be?

UTC Cambridge operates for longer hours than most schools, 8.30am - 5pm. This is because there is so much to fit into every day. We are also modelling the workplace to prepare you for your first day in employment.

What will I have to wear?

Year 10 students will be expected to wear a uniform. This will be grey trousers, grey jumper or cardigan and a white shirt. Year 12 students will be expected to wear business dress.

I am currently in Year 12. Can I come to UTC Cambridge?

Yes, students already in Year 12 who wish to re-do this year in a specialist environment can apply to join Year 12.

What are the staff like?

All the staff are highly experienced and well qualified. They have worked in academic institutions before and most have research and industry experience.

Will UTC Cambridge be inspected by Ofsted?

Yes, UTC Cambridge is classed as an academy by Ofsted and will be monitored regularly.

What is the environment like?

UTC Cambridge has a new £10M building as part of the Cambridge Biomedical Campus. The environment is more like work than school with smart business dress and a more informal interaction between staff and students (students call staff by their forenames).

Will there be lots of homework?

As your working day at UTC Cambridge will be longer, all assignments, projects and work can be completed on campus. Private study will be incorporated into the timetable.

HOW TO APPLY

2015/16

Post 16 Applications

UTC Cambridge is now accepting applications for September 2015. Please apply through UCAS Progress. The link is available on our website. After you apply we will:

- acknowledge your application
- invite you to an application meeting
- make you a written offer

Year 10 Intake (14 years)

Please download the UTC Cambridge Application form from our website and either scan and email the completed form to info@utccambridge.co.uk or send to:

UTC Cambridge
Robinson Way
Cambridge CB2 0SZ

If you are interested in joining UTC Cambridge but not for September 2015, join our mailing list by completing the contact us form on the website.

Admissions

UTC Cambridge is a state-funded, comprehensive, mixed-ability institution and as such operates an open admission policy. For information on our admissions policy, go to www.utccambridge.co.uk

**For further enquiries,
please contact us on
tel. 01223 724300.**



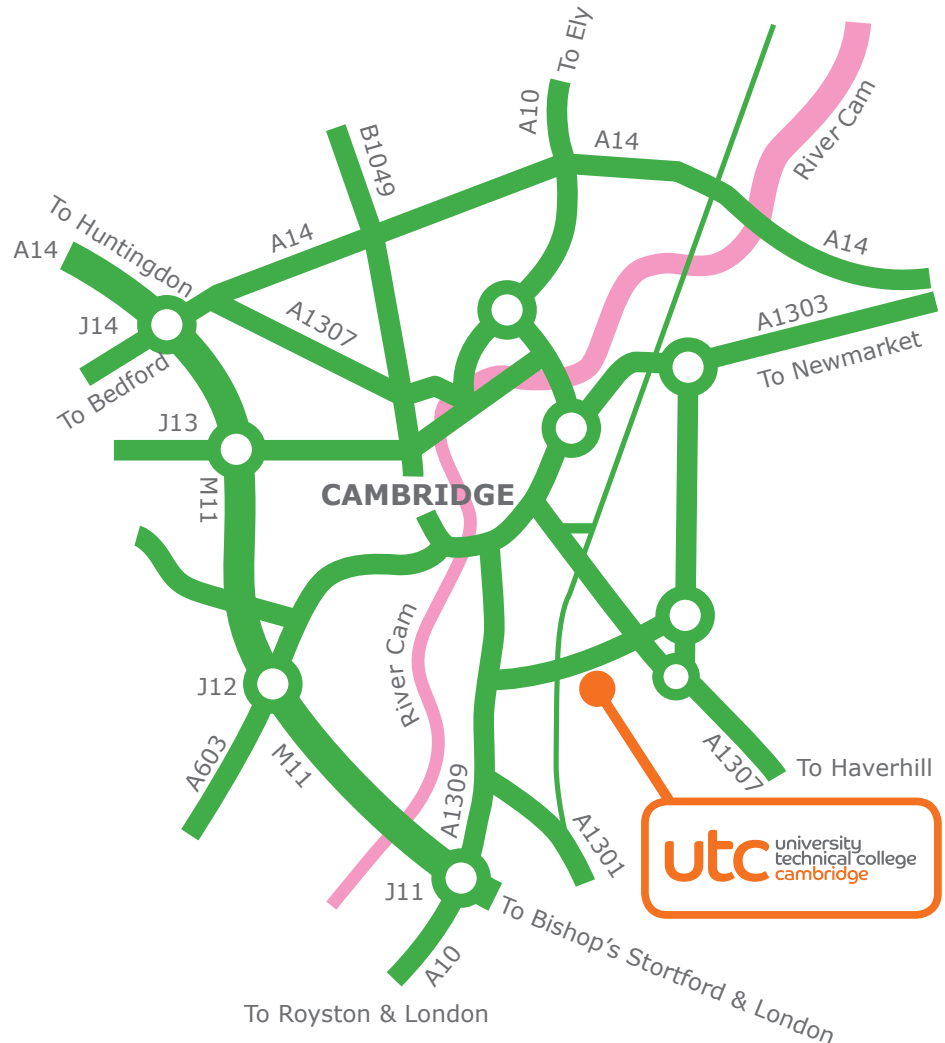
TRAVEL

Our policy is to encourage students to use public transport or other methods of environmentally-friendly transport where possible. Therefore there is no student parking on site other than for students with a disability. There are plenty of cycle racks available for students who wish to cycle to college.

Our free shuttle bus runs a morning pick-up at 08.15 and drop-off journey at 17.05 to Cambridge Railway Station. The Guided Busway stops very close to the college.

There are Park and Ride services from Babraham Road to Addenbrooke's Hospital, and the Trumpington Park and Ride provides a bus to the college approximately every 15 minutes.

www.go-whippet.co.uk
www.stagecoachbus.com





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find us on...

