



The Amgen Biotechnology Programme

The Science Learning Centre East of England; the University of Cambridge, Faculty of Education; and the Teacher Scientist Network, are delighted to have received a grant from the Amgen Foundation to bring Biotechnology to life in secondary schools and colleges.

The Amgen Biotechnology Programme is an education outreach project that can transform Biology lessons Post 16 and extend students at KS4 as well as inspire and encourage students to experience the excitement of real-life Bio-science.

The project involves CPD for biology teachers and school technicians and the loan of materials and resources to the schools involved, free of charge. The Amgen Programme has already made a significant impact on schools in the US, with over \$4 million invested. Cambridge & Norwich are the first places where the Amgen Foundation has been working with teachers and schools in Europe.

The course will cover aspects of biotechnology including ligation reaction and restriction enzyme digestion. We will be using lab grade equipment, including electrophoresis equipment and lab grade pipettes. Following participation in the CPD, each school will then be able to borrow the equipment to use within their classroom. You will also be given a quantity of consumables free of charge for use in these lessons (including plasmid DNA and all necessary reagents). We will use a booking system to rotate the equipment around participating schools.

AMGEN Biotechnology Lab Programme EEC12700 and EEC12702

A unique opportunity to access training in the teaching of Biotechnology and access free biotechnology materials

- One day course for teachers and two day course for technicians
- £30 fee in total to cover all CPD and the free loan of lab grade equipment and all consumables
- Free resources for all participants

Dates and Venue

EEC12700 02 & 03 July 2013
Teacher Scientist Network (John Innes Centre, Norwich)

EEC12702 01 & 02 July 2013
Faculty of Education, University of Cambridge



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How will it work?

The workshops will be held in two different locations in the East of England.

We would like one teacher and one technician from each participating school to attend Day 1.

We would then like the technician only to attend Day 2. Please select which location is most suitable for you.

How is it appropriate to the curriculum?

An expanding part of the A2 specification relates to genomes, DNA and its manipulation. This series of practical experiments will link to A2 students' required knowledge and provide invaluable experience for those planning further study in this area. It is also relevant to KS4 and an abbreviated version would provide an excellent opportunity for students to extend their knowledge, develop practical skills and gain insight into the techniques which underpin practical research in this area.

How much will the course cost?

The cost to each participating school is £30 in total. This covers the basic costs of sending a teacher and technician to the training. The Amgen Foundation is funding all other aspects of the project. This fee covers the cost of the training for one teacher and one technician, the loan of extensive lab grade equipment and all necessary consumables to run the labs in school.

How do I apply?

There are very limited places on the Amgen Programme.

We will allocate places to schools on a first come, first served basis.

Participating schools and colleges will be required to collect and return kits before and after the designated loan period from either the Faculty of Education, Cambridge or The John Innes Centre, Norwich. Please only register for the programme if you are able to do this. All participating schools must commit to a loan of the kit.

Application

You will be able to book your places through the Science Learning Centre East of England.

Please use our website www.slcs.ac.uk/east or call us on 01992 503498

For any queries contact Kate Mouncey directly on: k.mouncey@herts.ac.uk.

