



The Royal Academy  
of Engineering



University  
Technical  
Colleges

# HE STEM Support for University Technical Colleges (UTCs)

A national conference seminar and colloquium  
series



The Royal Academy  
of Engineering



University  
Technical  
Colleges

## HE STEM Support for University Technical Colleges (UTCs)

**14-19 Curriculum Models + Assessment**

**PPD for University Students/Others**

**Wolverhampton Loughborough Cambridge**

**Staffordshire Derby Liverpool**

**Authentic/Contextual Curriculum**

# THE JCB ACADEMY AUTHENTIC CURRICULUM THE ENGINEERING EDUCATION CONFERENCE

JCB ACADEMY, ROCESTER, STAFFORDSHIRE. 25-26 JUNE 2012



The Royal Academy  
of Engineering



THE ROYAL ACADEMY OF  
ENGINEERING AND THE JCB  
ACADEMY ARE BRINGING  
TOGETHER INDUSTRY AND  
EDUCATION PROVIDERS  
FOR A TWO-DAY COLLOQUIUM  
ON ENGINEERING CURRICULUM  
DEVELOPMENT. THIS NOT TO  
BE MISSED EVENT HAS BEEN  
ORGANISED IN THREE PARTS:

#### PART 1

The opportunity to visit the prestigious JCB Academy and see how engineering students and staff are working with the curriculum.

#### PART 2

A private dinner to hear about the ideas for a new engineering education network.

#### PART 3

Presentations from JCB Academy partner organisations, JCB staff and students showcasing their authentic engineering education programmes.

#### THE COLLOQUIUM WILL BE OF INTEREST AND RELEVANCE TO:

- University Technical Colleges
- Aspiring UTC consortia
- Specialist Engineering Academies and Schools
- Employers with a responsibility for educational development
- JCB partner organisations

CLICK HERE FOR FURTHER  
PROGRAMME DETAILS AND  
BOOKING INFORMATION.  
PLACES ARE GOING FAST,  
SO PLEASE CONTACT US  
BEFORE XX XXXXX 2012 TO  
RESERVE YOUR PLACE.



# THE JCB ACADEMY AUTHENTIC CURRICULUM THE ENGINEERING EDUCATION CONFERENCE



The Royal Academy  
of Engineering

## PROGRAMME DETAILS

### DAY 1 INTRODUCTIONS

- 10:00 Arrival at JCB Academy  
Introduction from Jim Wade, Principal  
Learning in the Academy  
Lunch  
Tour

### DAY 2 MAIN CONFERENCE DAY

- 10:30 Arrival and Coffee  
11:00 The Authentic Curriculum – Royal Academy of Engineering and JCB Academy  
11:30 Managing authentic curriculum development – strategy, time, cost  
12:30 Plenary – key issues  
13:00 Lunch and networking  
13:30 On the receiving end  
  - Timetables
  - How students perceive the curriculum
  - Do's and don'ts
  - Timeless concepts

14.30 Example curricula  
  - Network Rail
  - National Grid
  - JCB
  - Bosch
  - Toyota

15:00 Tea and networking



**DATE:** 25–26 JUNE 2012  
**VENUE:** JCB ACADEMY  
**COST:** £xx.xx

#### FOR FURTHER INFORMATION

Les Jones  
Royal Academy of Engineering  
Communications  
les@solutions4schools.org.uk  
07802 43 99 61

#### Useful click links

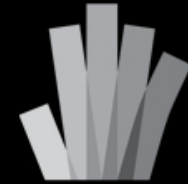
- [Download a booking form >](#)  
[Directions to JCB Academy >](#)  
[Contact the organiser >](#)

#### Supported by





The Royal Academy  
of Engineering



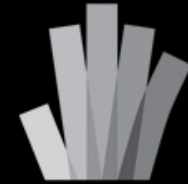
University  
Technical  
Colleges

# HE STEM Support for University Technical Colleges

**Achieving curriculum coherence: project and  
problem based learning and assessment**



The Royal Academy  
of Engineering



University  
Technical  
Colleges

**10.30am Welcome**

Les Jones Seminar + Colloquium Series Project Leader and Professor Matthew Harrison, Director, Education, The Royal Academy of Engineering

**10.40 am Achieving curriculum coherence: constructive alignment of assessment criteria within project and problem based learning approaches to 14-19 engineering education**

Professor Matthew Harrison, Director, Education The Royal Academy of Engineering, London

**11.25 am Mapping Assessment Criteria for the Principal Learning in Engineering against professional engineering competences**

Dominic Nolan Manager, STEM Curricula The Royal Academy of Engineering

**12.10 pm Achieving and sustaining deep employer engagement in teaching and learning**

Richard Earp Education and Skills Manager, National Grid.

**1.00 pm Lunch and networking**



The Royal Academy  
of Engineering



University  
Technical  
Colleges

**1.30 pm**

**Examining Groups**

Dianne Gomery, Strategic Partnership Manager, Pearson  
Mike Deacon Principal Standards Verifier for Engineering, Pearson  
Bryan Williams. Chair of Examiners for Engineering AQA  
Allan Macdonald Product Specialist, EAL  
Geoff Holden, Senior Policy Advisor City and Guilds

**3.00 pm Achieving Coherence: Final Discussion of day and next steps**

David Harbourne Baker-Dearing Educational Trust, Les Jones Royal  
Academy of Engineering.

3.30 pm

Tea and Departure