Welcome to the Royal Greenwich UTC

An industry led technical education for 14 - 19 year old students
Today’s Programme

An introduction to the Royal Greenwich UTC

– Philosophy and ethos
– Curriculum
– Facilities
– Making it happen
– The challenges for us.
What is a UTC?

University Technical College

A new concept in education

– Business-led
– Highly specialised
– Project-centric
– Links to higher education
– 14 to 19 age group!
We are focussed on
Creating the Future

Through engineering and construction
Our Industry Connections

• Employer knowledge
  – Involved in all aspects of student education
  – Set projects for students to work on
  – Involve students in their own projects
  – Mentoring on careers and personal development

• All aspects of industry
  – From Architecture to Zener Diodes.
  – From Apprentice to Z programmer.
  – From Concrete Engineering to Computer Engineering
Projects and Curriculum

• Focussed and enriched learning

• Project-centric curriculum for:
  – STEM type A-levels
  – BTEC Level 3 – Construction & Built Environment, Engineering and Business
  – City & Guilds Level 2, Level 3 – Principal certificates in Construction & Built Environment and Engineering

• Same rules as secondary schools – i.e. OFSTED

• Strong links with the University of Greenwich and Royal Greenwich Local Authority
The Project-centric Approach

- Technical A-levels & BTECs, Art & Design
- Enrichment Programme
- GCSEs and A-levels
- Industry informed activity
Plus Enrichment
Our Graduates

- Confident
- Enthusiastic
- Open minded
- Opportunity oriented
- Good Negotiators
- Team players
- Innovative
- Creative
- Have strong business acumen
- Problem solvers
- Self-motivated
- Show integrity
- Have great IT skills
- Critical thinkers
Careers we target

- Electrical Engineering
- Sustainable power Engineering
- Electronic Engineering
- Systems Engineering
- Process Control Engineering
- Transport Engineering
- Product Design
- Software Engineering
- Environmental Engineering
- Mechanical Engineering
- Aeronautical Engineering
- Automotive Engineering
- Process Engineering
- Rail Engineering
- Facilities Management
- Health and Safety Management
- Asset Management
- Carbon Management
- Building Control
- Landscape Architecture & Design
- Water Management
- Waste Management
- Highways Engineering
- Tunnelling
- Transport Planning & Operations
- Marine and Coastal Engineering
- Computer Networking and Telecommunications
- Project & Construction Management
- Project & Programme Management
- Construction Trades
- Civil Engineering
- Architecture
- Interior Design
- Surveying
- Building Services
- Planning and Quantity Surveying
Outcomes we target

University or FE college
- Engineering
- Architecture
- Maths
- Construction
- Sciences

Starter role in Industry

Apprenticeship

Oxbridge
Russell Group
Post ‘92 (Greenwich)

Engineering
Transport operations
Service management
Interior design
Site work
Facilities management

TfL  Wates  BT  JP Dunn
BAE Systems  nPower  IBM
Defining the UTC

• **Our vision**
  – “To be the best place in London for students aged 14 – 19 years old, of all abilities, to study for a future in construction, engineering or related industries.”

• **Our ethos**
  – Unashamedly technical
    • Design
    • Science
    • High technology
    • Traditional crafts
    • Management skills
    • Manual skills
  – Special focus on sustainable construction and transport with an emphasis on safety.

• **Our approach**
  – Centre their learning on a series of real world projects and activities
  – Supported by business which enthuses and motivates
  – Learn: What you need to know. Why you need to know it
  – To educate the whole person.

• **The outcome**
  – Enterprising, Opportunity Oriented, Confident, Capable, Creative, Open Minded with
  – Great Qualifications and Real Skills
  – Able to think things through, solve problems and demonstrate commercial understanding, solve problems and demonstrate commercial understanding in everything they do and the way they behave.
In addition

- **Our Pledge**
  - Either a place for further study or an apprenticeship or a role in industry for our graduates

- **Business dress code**
  - All the rules follow business courtesies and etiquettes

- **Extended day: 8:30am – 5:00pm**
  - Homework done during the day
  - Enrich the learning experience

- **Industry Standard equipment**
  - Work with the kit the industry uses
Definitely not just a vocational offer

• The only time we use the V word... as it devalues what we do because:
  
  • Competitive academic STEM curriculum
    – Specialised
    – Cater to all abilities
  
  • Technical and Professional careers
  
  • We won’t have single ‘biblical skills’ programmes
    – No full plastering or bricklaying programmes.
    – Most of these skills will be better done by others.
  
  • We will have the more technological crafts
    – Building services
    – Electrical Engineering
Our Facilities

• £10 million: Building Budget
• £1.5 million: Specialist Equipment Budget
• Examples:
  – 4 x 3D Printers.
  – 90 Computer aided design stations.
The challenges for us

• Use a systems approach with larger building blocks:
  – “If you want to get to the moon in four years you cannot start by learning how to mine bauxite, smelt aluminium and then work it into a rocket shape! Just buy the rocket motor.” (Mike Sharp 1985)

• The technical world is stratifying.

• We are struggling with an information (knowledge) explosion.

• It is about an empathy with the materials, the inputs and outputs rather than the fine detail for most people.

• Have we learned how to control the level of detail

• Design is everywhere and nowhere.
In Summary

• We ask our students to:
  – Step up
    • It’s a big step
    • Meet the challenge of being a student at the Royal Greenwich UTC
    • Get treated like a grown up from day 1 and start changing the world from day 2.
  – Get ahead
    • Put themselves ahead of the crowd
    • Get their qualifications, develop themselves into an asset who can add value
    • Whether they go to work straight from the UTC or via further study.
  – Stay ahead
    • Use what they learn to make an impact
    • Stay ahead of the crowd and continue to stand out.
So you want to start a UTC?
It's a rich picture!

- Great sponsors with huge capacity for in-kind support
- Budget not set up right, cannot start staff early enough or afford MIS
- Spend a million on £650Ks worth of stuff
- Sponsor drops out!
- LA does not write to parents
- LA write to parents
- MiS not up and running early enough
- Coordinated admissions not set up for UTCs
- Local heads take against you
- DfE ROM CHECK
- OFSTED pre OPENING CHECK
- Contractor hits problems - you weigh in and clear blockage

Choose your friends with care.

- DUG does not 'get it'
- DUG has a contractor on your side
- DUG is well found.
- D&B Contractor
- Consultant or no consultant
- Great architect appointed.

Design Users Group
CPs
Start PD
Start more staff

Now leave it alone!!!!!
Get into your local Y7 options booklet
Start the build 14 Months (min)
Appoint Principal

Read, read, sell to parents and students

Interview every 6th form applicant
Thank You

Any Questions?

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