

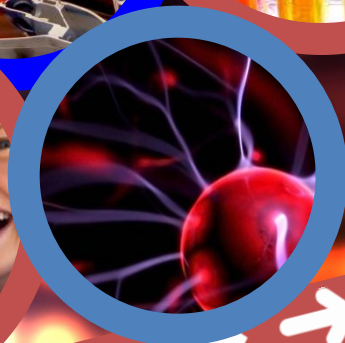
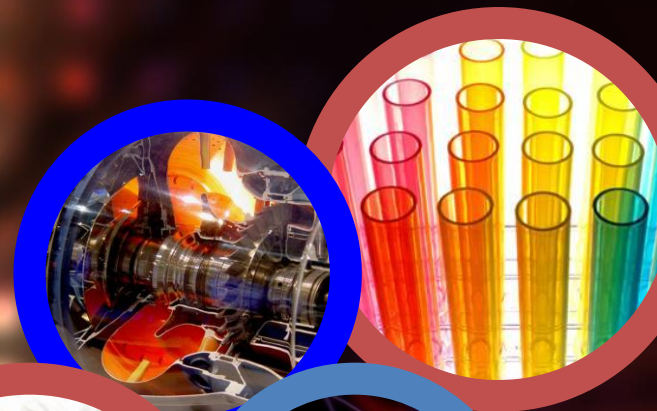


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The Big Bang 2011



**national
science+
engineering
competition**

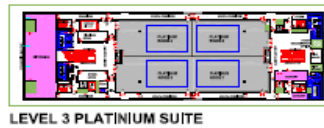
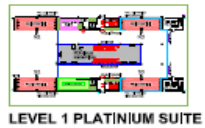


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EXISTING VENUE



EXPANDED VENUE, OPENING SPRING 2010
LEVEL 1



- KEY:**
- PLANT
 - CATERING
 - TOILETS
 - HALL OFFICES
 - VENUE SERVICES
 - OFFICES






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Shows




bang goes the theory

Get ready to put science to the test




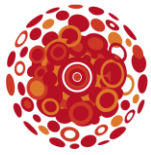
Incidental Colman in association with **sky1**
present



BRAINIAC

LIVE





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B B C





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Attendance



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2011 Expected Attendee Breakdown

- Over 16 800 currently registered with emphasis on 11-14 and Thursday
- Around 25 000 expected on site with 20 000 'young people' and 5000 teachers, parents and guardians
- 350 competitors and 223 guardians for the National Science & Engineering Competition (up to 200 Projects)
- 160 national and local media representatives on site
- 1000 sponsors and 140 institution representatives on site



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2011 Current Sponsors

Led by:

EngineeringUK

In Partnership With:

British Science Association

Institute of Physics

Royal Academy of Engineering

Science Council

Young Engineers

Supported by:

Department for Business, Innovation and Skills

Department for Education

The Lloyd's Register Educational Trust

Wellcome Trust

Lead Sponsors

BAE Systems

Shell

Siemens

Major Sponsors

Rolls-Royce

IBM

Corporate Sponsors

Airbus

British Airports Authority

British Gas

EDF Energy

E.On

Fraser-Nash Consultancy

Heathrow ()

General Dynamics

Intel

Jaguar LandRover

JCB

Lockheed Martin

National Grid

SELEX Galileo

Sellafield

Semta

Thales

The National Skills Academy for Power



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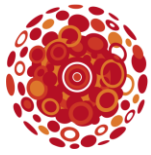
Run schedule



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North Hall



Body Talk

Exploring the body in the world around us. From medicine to psychology, biodiversity and food. Find out about the exciting ways in which we can create a clean, and healthy future.



Energise

Learn about the energy challenge facing us all. How can we balance our rising energy demands with the need to conserve resources?



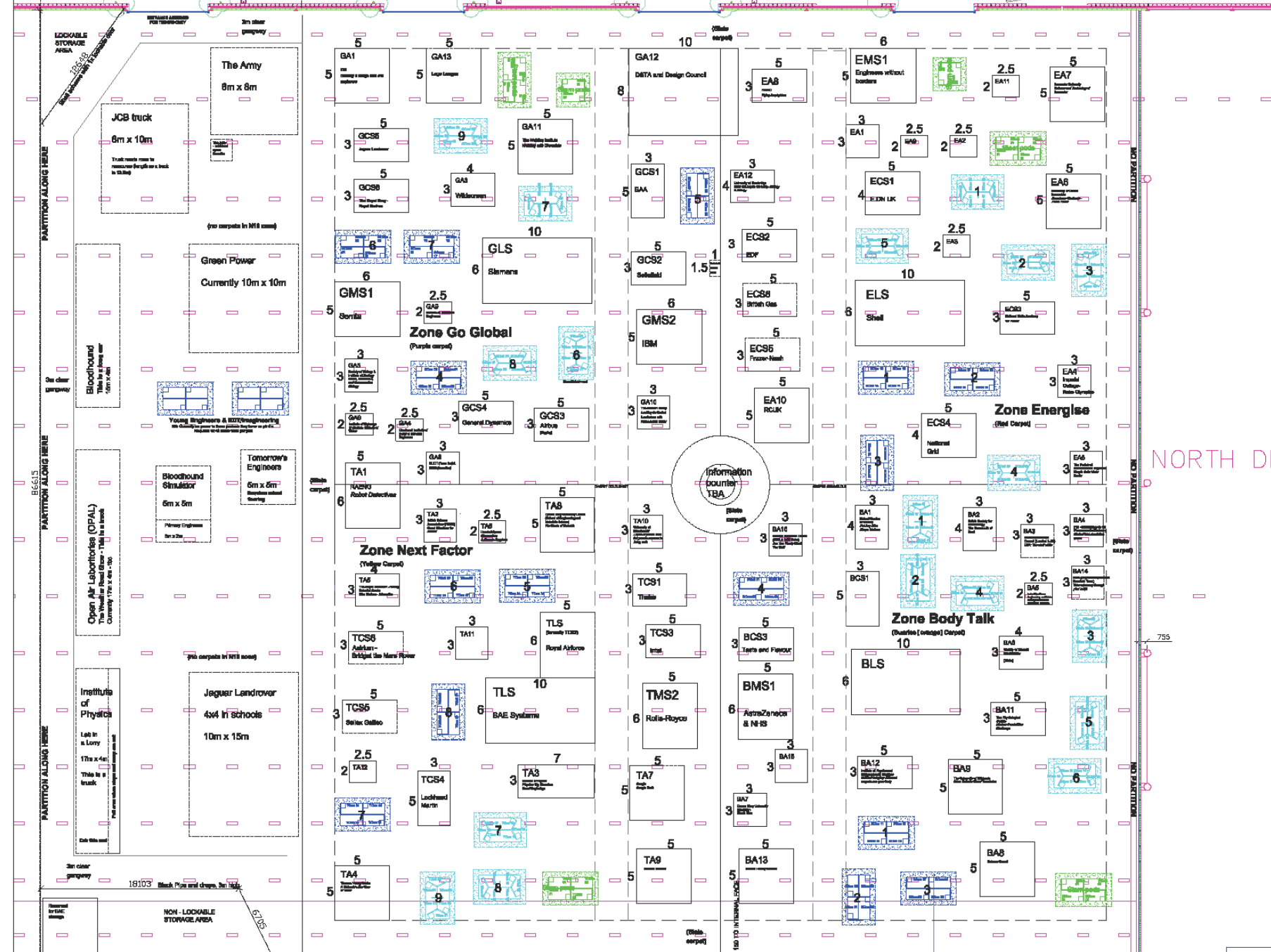
Go Global

Explore some of the major challenges facing our global village and the ways in which clever thinking is solving them.



The Next Factor

Our future is shaped by innovation, ideas and research. Discover how tomorrow's world is being made today!



NORTH DRIVE

755

REGISTRATION

REGISTRATION

The Army
8m x 8m

JCB truck
6m x 10m

Green Power
Currently 10m x 10m

Open Air Laboratories (OPAL)
The Weather Head Office - This is a bank
Currently 7m x 4m x 10m

Bloodhound
6m x 8m

Tomorrow's Engineers
6m x 6m

Jaguar Landrover
4x4 in schools
10m x 15m

Institute of Physics
Lab in a Lorry
17m x 4m

Zone Go Global
(Purple carpet)

Zone Next Factor
(Yellow Carpet)

Zone Energise
(Red Carpet)

Zone Body Talk
(Darkblue (orange) Carpet)

Information counter
IBA

NON-LOOKABLE STORAGE AREA

LOOKABLE STORAGE AREA

F&B

G4

G5



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The Next Factor



Our future is shaped by ideas, innovation and research. Discover how tomorrow's world is being made today!

Lead:

BAE Systems

Major:

Rolls-Royce

Corporate:

Intel, Thales, Lockheed Martin, Sellex Galileo

Other:

- Google- Chrome and Google Earth
- British Science Association - Good Vibrations for NSEW



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The Next Factor



Our future is shaped by ideas, innovation and research. Discover how tomorrow's world is being made today!

Activities:

- Royal Air Force (In conjunction with BAE Systems)
- Institute Of Physics- Physics: Big Ideas from small beginnings
- Royal Academy of Engineering- Robot Detectives
- Herschel Space Observatory- A cosmic Spyglass
- Queen Mary University - The Magic of Materials
- The Royal Institution- Size Matters
- Science Museum
- Thomas Young Centre- A Molecules Eye of Water
- University of Manchester- Liquid Crystals: From Flat Panel Screens to living cells
- Astrium- Bridget the Mars Rover



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Body Talk



Exploring the body in the world around us. From Medicine to psychology, biodiversity and food. Find out about the amazing ways in which we can create a clean and healthy future

Lead: TBA

Major: TBA

Corporate: TBA

Other:

Society for General Microbiology

Institute of Biomedical Sciences / Institute of Healthcare Engineering and Estate Management

Science Council

Natural History Museum



Body Talk



Exploring the body in the world around us. From Medicine to psychology, biodiversity and food. Find out about the amazing ways in which we can create a clean and healthy future

Activities:

- Queen Mary University - Bionic Man
- Statisticians in Pharmaceutical Industry- Clinical Trial simulation game
- Biotechnology and Biological Sciences Research Council- Taste of Flavour
- The Psychology Society - Modern Pentathlon Challenge
- Robert Gordon University- Fat Body Slim: Shape Matters
- Institute of Physics and Engineering in Medicine-
- Medical Imaging: Different ways to see your body
- National Health Service
- University of Edinburgh- Stem Cells for Blood Transfusions
- British Society for Immunology- Secret Life of Snot
- Science Council
- Medical Research Council- London & SE- DNA: The Stuff of Life
- Medical Research Council- HNR & BSU – Are you really what you eat?



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Go Global



Explore some of the major challenges facing our global village and the ways in which clever thinking is solving them.

Lead:

Siemens

Major:

IBM

Corporate:

Airbus, British Airports Authority, General Dynamics, Jaguar LandRover, Sellafield, Semta

Other:

- Institute of Civil Engineers
- Institute of Structural Engineers
- Institute of Railway Signal Engineers
- Institute of Highway Engineers
- Institute of Water
- Royal Academy of Engineering
- Chartered Institute of Building Services Engineers
- British Institute of Non Destructive Testing,



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Go Global



Explore some of the major challenges facing our global village and the ways in which clever thinking is solving them.

Activities:

- Geological Society of London- The Earth Rocks!
- The Welding Institute - Welding With Chocolate
- The Rascan Group- Looking for Buried land Mines with Holographic Radars
- Design & Technology Association / The Design Council / The Dyson Foundation
- Wildscreen
- The Royal Navy- Engineering in the Royal Marines



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Energise



Learn about the energy challenge facing us all. How can we balance our rising energy demands with the need to conserve resources.

Lead:

Shell

Major:

TBA

Corporate:

British Gas, EDF Energy, E.On UK, Fraser-Nash, JCB, National Grid, National Skills Academy for Power

Other:



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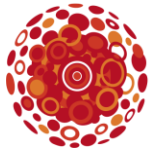
Energise



Learn about the energy challenge facing us all. How can we balance our rising energy demands with the need to conserve resources.

Activities:

- Engineers without Borders
- FESTO- Flying Amphibians
- Lancashire University- Science and Technology at Lancashire
- Imperial College- Robolympics
- Research Councils' UK: Researchers in Residence
- The Society for Environmental Engineers: Simple solar water heater
- University of Central Lancashire- Scrapheap Science : Pedal Power
- University of Cambridge: Meet the Algae, Diversity, Biology & Energy



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Hall 19



Activities:

- Bloodhound Car and Simulator
- Tomorrows' Engineers- Young Engineers / EDT
- 4x4 in Schools
- Institute of Physics- Lab in a Lorry
- Open Air Laboratories- The Weather Road show
- The Army- Careers
- Greenpower

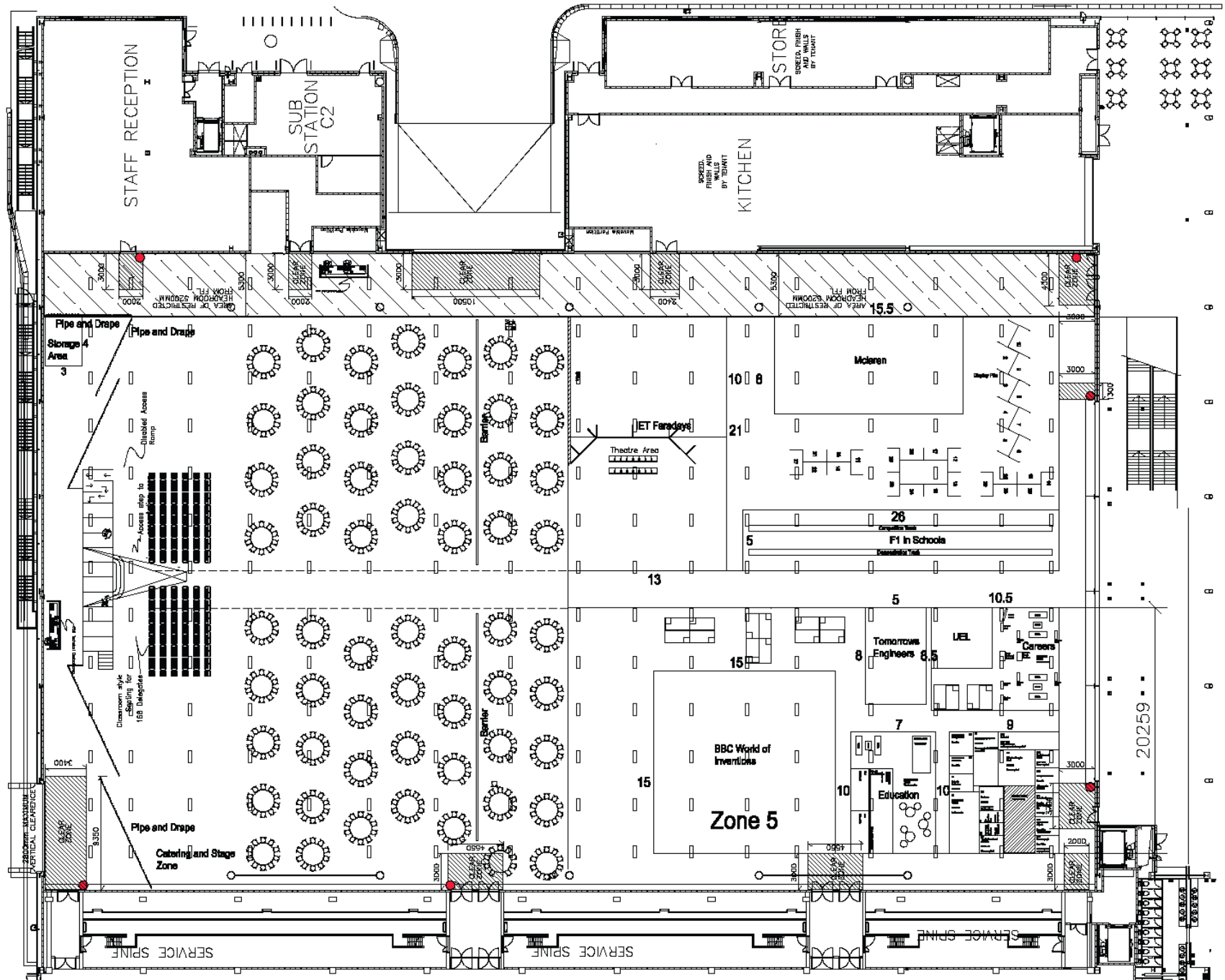
**The engine room of
tomorrows' world**



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Capital Hall

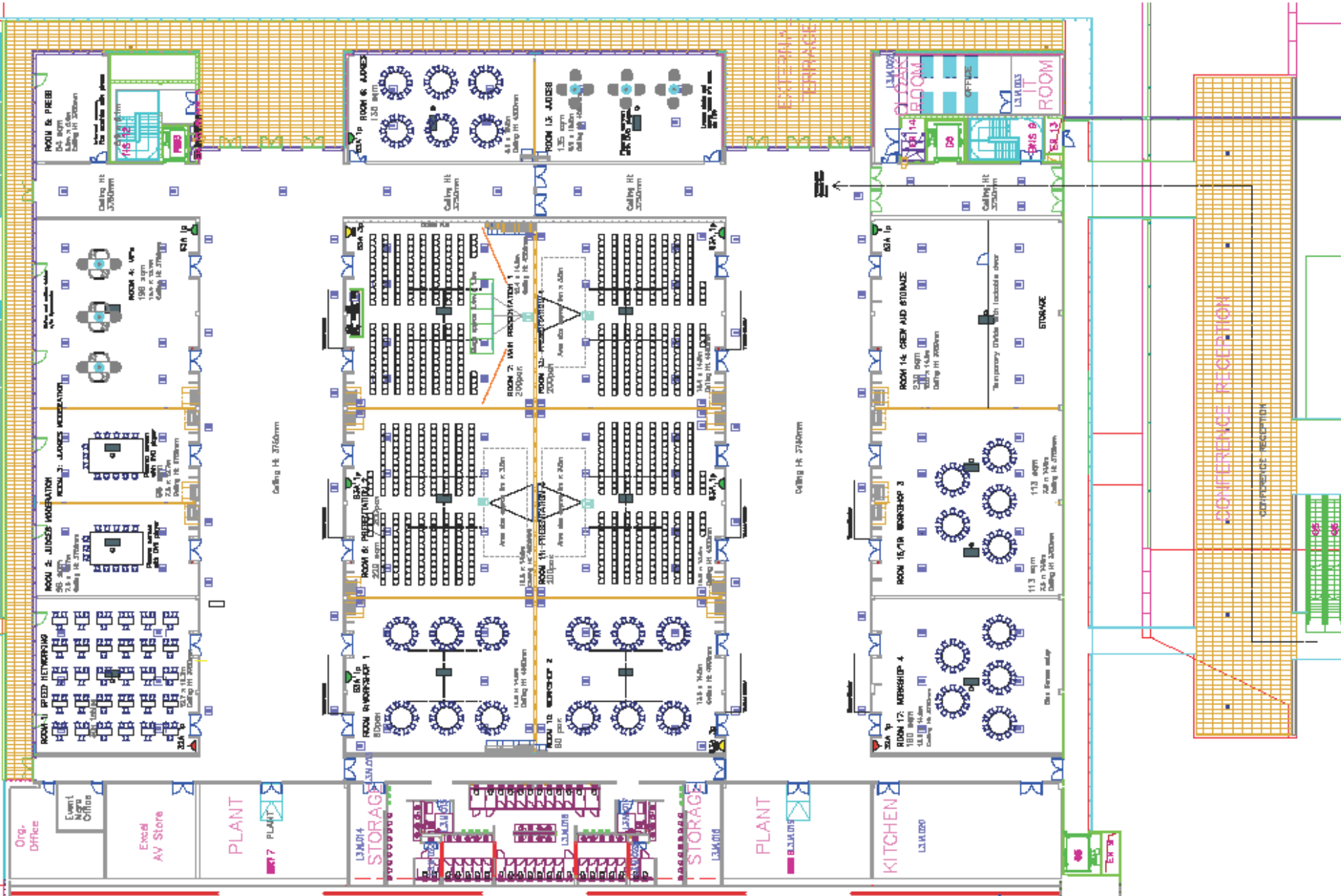




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Capital Suites





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Portal



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Questions and Answers