

Engineers Week

27 February - 4 March, 2012

ENGINEERS SHAPE OUR FUTURE



So what is engineering?

Engineers are the people who design and develop things that you use every day. From the alarm clock that wakes you in the morning to the toothbrush that cleans your teeth before bedtime, they even develop the systems that get clothes and groceries onto store shelves. Almost everything around us has been engineered for you.



1884

Greenwich Mean Time (GMT) established



1933

Cars become mainstream



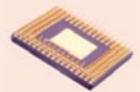
1940

First colour television broadcast



1965

First commercial satellite launched



1993

First pentium chips delivered

Engineering Disciplines

There are a huge range of engineering disciplines to choose from. A discipline is another word for a field of study or a speciality. Just like how doctors can choose to be surgeons or GP's, engineers can choose what they want to specialise in. There are 11 different disciplines that engineers work in. In the word search below try to find the 11 disciplines.






- | | |
|-------------------|-------------------|
| AERONAUTICAL | BIOMEDICAL |
| BIOSYSTEMS | BUILDING SERVICES |
| CHEMICAL | CIVIL |
| COMPUTER SOFTWARE | ELECTRICAL |
| ELECTRONIC | MANUFACTURING |
| MECHANICAL | |

E Z I Z C D L S V Y P B I D W G S
S R A E R O N A U T I C A L N L E
W D A D D U V X C O P S R I X A C
I E H W D M O Y S I D B R I N C I
A P K O T M E Y X Y N U W A A I V
H U U Q C F S L N C T A K Y L M R
B V T V W T O Y E C F G H I I E E
I P I C E O N S A C X N V C X H S
O Z D M Y N W F R R T I F J E C G
M O S G X K U N O E C R S A V M N
E I I T G N P J G B T J O S M S I
D J Y F A K E G N X L U H N C T D
I S L M B P Y N T Z U J P F I Y L
C L A C I R T C E L E Y W M F C I
A O N I N X B X D B Q K I T O Z U
L G H Q H U N P W W D M I M S C B
X W U E K W O A X R L R G T X J F

ACTIVITIES

Job Hatch

In this activity there are descriptions of the type of jobs that engineers do. Your task is to match up the title of the engineer who does each of the jobs and also match up the picture that best suits the type of engineering.

Job Description	Title	Photo
In my job I help develop and construct airports, bridges, roads, railways, tunnels and even roller coasters! I also try and solve environmental problems like air pollution, waste treatment, coastal protection and ways to prevent flooding!	Chemical Engineer	
My job is to design and develop machines that fly. We create newer and safer ways to travel in airplanes, helicopters and even spacecraft. In my job I am also always looking to see how we can make our cars, trains and boats more aerodynamic!	Civil Engineer	
I use my training to design systems to help prevent, diagnose and treat all types of diseases, injuries and disabilities! I am always working with doctors and nurses to get their feedback on what we design and build so we can constantly improve on it, helping them save lives!	Mechanical Engineer	
I work to improve all modes of transport such as trains, boats, and even submarines! We also look at how we can design new forms of energy production such as wind farms, marine turbines and solar energy!	Aeronautical Engineer	
In my job I am responsible for the production of chemicals in our everyday lives. That includes water and waste treatment, oil refinement for petrol, and producing food and beverages. I also experiment with what goes into shampoo and make-up.	Biomedical Engineer	

WIN

Each quiz entry will be in the draw with the chance to win a trip for two adults and two children to the NEMO Science centre in Amsterdam.

Name of participant

Home Address

Name of School

School Address

Contact Number

The prize is for two adults and two children (under 18 years old). The winner must be aged between 8-17 years old. The winner will be chosen on Wednesday 7th March 2012. This promotion is open to all participants of Engineers Week 2012 in Northern Ireland and RoI, excluding employees of the Promoter, their agents or anyone professionally associated with this promotion. Contact will be made to the number provided, or to the school, if applicable, on Wednesday 7th March 2012. A willingness to enter the draw is acceptance that you give consent, if you win, to take part in publicity arising from the promotion. By entering this promotion the

entrant will be deemed to have read and understood these Terms and Conditions, and to be bound by them. Bulk entries will not be accepted. The promoter reserves the right to change the prize or offer an alternative prize of equal or greater value. There is no cash alternative. The prize is non-transferable, and non-changeable. The promoter reserves the right to substitute a prize of similar or greater value should the circumstances make this necessary. The promoter reserves the right to terminate this promotion if circumstances beyond its control made this necessary.