

## Volunteer for Hydraulics and Lifting Engineering Workshops

On-board MV Balmoral, moored under the Cargo Cranes outside M Shed Museum

Princes Wharf, Wapping Rd, Bristol BS1 4RN

7<sup>th</sup> December – 9:30 to 2:30



Pupils work in small groups with a volunteer to make a crane or robotic hydraulic arm from card, syringes and plastic tubing. They will also see demonstrations of modern lifting and accessing equipment and go up and operate the historic Cargo Cranes.

### We are looking for volunteers to

Mentor and support a group of young people completing a team build & operate challenge.

supply the key messages -

- that work is good fun, there are many different jobs to think about and work gives greater opportunity in life.
- Teams make engineering work - Engineers are needed in all sorts of places

Help the children explore ideas about the construction and the lifting and access industry.

### We are looking for demonstrations that contextualise the learning

Can you provide staff and kit so that we can demonstrate lifting technology? This could be a gantry rig, a mobile crane, a robotic device, medical engineering, bio- mechanics or a CAD programme for planning positions of tower cranes on a construction site. Demonstrations can use outdoor or indoor space.. Students will rotate through demonstrations in small groups.

### On the day

**Arrive by 9.30 am – Finish 2.30 pm**

**Parking – There is a car park behind the M Shed Museum or at Mud Dock.**

**Teams** - one volunteer per group of 4 young people. Ages will vary throughout the week

**Introductions** - You will be quizzed by the young people and introduced to the room

**Team Building** - An essential element of the challenge for the day

**Crane Building Challenge** - Mentor the group who are following the instructions provided

**Visit Demonstrations** – Accompany your team to range of demonstration and to operate the cargo crane

**Competing** - Teams compete with their engineering. Working to improve through a series of tests which demand that they define the defects in order to engineer improvements

**Presenting** – Teams present their reflections on how lifting technology has changed our built environment, the way we communicate and how it may be essential for the future. Older groups will have engineering solutions to present.

### FAQ

Workshops are led by expert staff. Teachers accompany the children (no DBS check required)

All instructions are provided as you go

Refreshment provided on board but no lunch (Plenty of cafes in the region)

Dress code – smart casual – company logos are encouraged (Warm clothing advised)

Any questions and to volunteer contact - [hugh@myfuturemychoice.co.uk](mailto:hugh@myfuturemychoice.co.uk) 0117 3290387