

## *I'm a (Biomedical) Engineer, Wellcome People Award – Interim Report*

In 2014, we received a People Award to run 8 *I'm an Engineer* zones featuring biomedical engineers between 1st April 2014 and 1st April 2017.

People Awards Objectives	Result - Interim
To run eight zones on biomedical themes over three years, each with five engineers and 330 students. Suggested themes: Drug Development, Ergonomics, Food, Hospital, Imaging, Prosthetics, Sanitation, Sports and Surgery Having 112 live chats (14 per zone)	We have run 4 zones so far: 2 in June 2014 and 2 in June 2015. We plan to run another 4 zones in March and June 2016. We ran a Food Zone and a Health Zone in June 2014 and a Hospitals Zone and an Artificial Body (Prosthetics) Zone in June 2015. At the moment, we've had an average of 16 live chats per zone.
Getting answers to 2,800 questions (350 per zone)	So far, a total of 1896 (474 per zone) questions have been asked, of which - after removing duplicates - 727 (182 per zone) have been approved. We think that the objective of getting answers to 2,800 questions in total was unrealistic and too high.
40 biomedical engineers take part.	20 biomedical engineers have participated until now.
50% of the engineers are female	9 out of 20 (45%) of the engineers are female
At least 10% of the engineers from BME	4 out of 20 engineers (20%) are from BME
We expect 50% of the engineers to be from industry, 30% from Government & public sector and 20% from academia	So far we've had 5 (25%) engineers from industry, 13 (65%) from academia and 2 (10%) from the public sector. This distribution is different to what we had anticipated.
At least 75% of the engineers to be involved in live chats and answering questions	All the engineers who took part answered questions and 90% took part in live chats.
At least 75% of the engineers say they enjoyed the experience and would recommend to colleagues	All the engineers who filled our post-event survey say they have enjoyed the event and would recommend it to colleagues.
At least 60% of the engineers say they are likely to do more public engagement than before.	100% of the engineers who filled in the survey say they want to do more public engagement after taking part.
At least 60% of the engineers acknowledge an improvement in communication skills.	All the engineers said they had improved their communication skills by taking part.

To distribute £4,000 in prize money to be spent on further public engagement	We have distributed £2,000 to be spent in outreach. Zoe George, Food Zone winner in June 2014, delivered school workshops in June and July 2015.
<p>To engage over 2,500 secondary students in biomedical engineering:</p> <ul style="list-style-type: none"> <li>At least 75% of the students actively engage with the event: they ask questions, take part in live chats and/or vote</li> <li>At least 75% of students think engineering is interesting after taking part</li> <li>At least 75% of teachers would recommend to colleagues</li> </ul>	<p>So far 1,543 students have taken part in the WT funded biomedical engineering zones</p> <ul style="list-style-type: none"> <li>82% of the students have actively engaged by asking questions, taking part in live chats or voting for their favourite engineer.</li> <li>Over 80% of students thought engineers had a “very” or “fairly interesting” job already before taking part, but this got even better after I’m an Engineer. The percentage of students who thought engineering jobs were “very interesting” went from 37% pre-event to 54% post event.</li> <li>We have made the teacher survey shorter and don’t ask about recommendations to colleagues, but all the teachers who filled in the survey said they were satisfied with the event, and 85% were “very satisfied”.</li> </ul>
To stimulate debate and discussion around biomedical areas of engineering.	<p>Questions like <a href="#">“Could artificial limbs improve human body performance?”</a>, <a href="#">“How is it possible to inject human cells into people without needles?”</a>, or <a href="#">“When you change the formula of food what kind of variables do you change?”</a> prove that the students got into the spirit of the event and brought up discussions about the current issues surrounding biomedical engineering. The students see engineering from a different angle and learn what engineering actually is: almost all the students who filled in the post event survey said they know more about the type of tasks engineers do, and the type of projects they work on after taking part.</p>
To evaluate the project to measure if our aims and objectives are being met.	<p>We produce evaluation reports for each zone:</p> <p><a href="http://about.imanengineer.org.uk/files/2015/07/Artificial-Body-Zone-Report.pdf">about.imanengineer.org.uk/files/2015/07/Artificial-Body-Zone-Report.pdf</a></p> <p><a href="http://about.imanengineer.org.uk/files/2015/07/Hospitals-Zone-Report.pdf">about.imanengineer.org.uk/files/2015/07/Hospitals-Zone-Report.pdf</a></p> <p><a href="http://about.imanengineer.org.uk/files/2014/07/Health-IENG-Report.pdf">about.imanengineer.org.uk/files/2014/07/Health-IENG-Report.pdf</a></p> <p><a href="http://about.imanengineer.org.uk/files/2014/07/Food-IENG-Report.pdf">about.imanengineer.org.uk/files/2014/07/Food-IENG-Report.pdf</a></p>