



## Transcript for: Institution of Civil Engineers

*[Up tempo music]*

*[Scroll of Images: Building 1, Building 2, Railway Station, Stairs, Bridge 1, Building 3, Bridge 2, Building 4]*

### **Ed McCann**

Civil engineering is the art of modifying the physical world for the use and benefit of man kind.

### **Scott Steedman**

Civil engineering is about creating the physical fabric for society to live.

### **Eleanor Heath**

To me civil engineering is about pushing the boundaries.

### **Ed McCann**

Everything that is the built environment, civil engineers are involved in it somewhere along the line.

### **Kathryn Goode**

What you walk on, what you live in, how you get you water and power supply.

### **Ross Smith**

The roads, buildings, drainage, electricity, they are all the work of civil engineers.

### **Claire Carr**

For me this is the best career in the world.

### **Jamial Mistry**

The sense of pride and achievement you'll get from engineering is second to none.

### **Eleanor Heath**

It's all about having the maths of architecture and working with architects to create something new.

### **Dan Cruikshank - Architect & TV Presenter**

Well it sort of amuses me really when people talk about architecture, they talk about architects but of course it's engineers. These are the guys that really understand how to make, pretty modern, buildings work. If one does get that basic skeletal thing right, the basic structure right. Elegantly, economically, in terms of responding to the brief, the climate, the site, the conditions, using local materials if possible all those issues, all those are focused on engineering. It is the engineer at the end of the day who is the heart of any great building project.

### **Eleanor Heath - Civil Engineering Student**

Well I have always been interested in maths and kind of designing and problem solving and I love working in a team. I have a really interest in kind of structures and the architectural side of it so that is what lead me on to civil engineering. I knew that was exactly what I wanted to do.

**Kathryn Goode - Civil Engineering Student**

I think you have to have a pride in what you do because the things you have designed will be appearing on the landscape for everybody to use and everybody to see.

**Claire Carr - Project Manager, St Pancras**

When you build projects like St Pancras Station, everything we build are going to be part of society for hundreds for years to come whether it's a road, a bridge, a railway, whatever it may be. My greatest achievement has got to be St Pancreas station. I still get a giddy step when I come into the station and it's just wonderful and I hope to be able to do it all again at some stage in my career. Very soon.

**Ross Smith - Civil Engineering Graduate**

A lot of the iconic buildings and structures that you see around you have at their core just one very simple idea and I think that's really powerful, and that's really awesome and satisfying. When you get that moment of realisation, it's just unbelievable.

**Jamial Mistry - Civil engineering Graduate**

I was involved in a bridge re-ferb, near my, next to my local actually. I was a construction manager of the re-ferb works. The fact that I was helping my community, basically on my door step was the best feeling ever. Really hits you here, brilliant you know, you won't get that in accountancy.

*[Reduced tempo music]*

**Ben Freedman - Civil Engineering Graduate**

Civil engineering definitely offers you the opportunity to travel. Just recently I've been involved in a project which is in India and Calcutta. We're involved in creating them a large sports academy, which is rugby pitches, football grounds, where they can train and produce sport to a good quality. I can wait to go back out there and see the site actually under construction and see the smiling faces on the kids. They were so excited about it when I was there in January and that was just looking at plans so I can't wait to see them when it has actually started on site.

To be able to feel that you are involved in projects, not only the one in India but projects that we do everyday in the UK that are changing people's lives. I thoroughly enjoy my job, if you can go into the office everyday and you know, feel excited about what you do because you know you are creating and designing exciting places for people, then that's definitely motivating.

*[Up tempo music]*

**Ed McCann - Director, Expedition Engineering**

In the 21st century we face some very significant challenges and civil engineers are going to be at the core of those and they include, how do we develop the developing world? How do we provide water for those that need it? How do we deal with issues of climate change?

I've done lots of interesting projects. I led the water engineering team on the terminal five project for many years. More recently I am the director here responsible for our work on the Olympic Velodrome. The one that I think is most important to me and most significant is actually setting up this business. You know I can do so much; any individual can do so much. But if you build an organisation full of fantastic people who are all doing loads of good stuff themselves then you are influencing your ability to do some stuff is much greater and so in a sense I think that has been the most rewarding that we have done. I spend three quarters of my time out and about. Whether it is on building sites or whether its meet politicians or whether it is dealing with funders or working with design teams and so so. Life is varied so there is great fun to be had out of human interaction. Erm, it's nice to get paid as well.

**Scott Steedman - ICE Vice President**

The Institution of Civil Engineers is your friend for life. It's the home of a professional civil engineer.

**Claire Carr**

Membership has definitely helped me in the development of my career with the institution, four, five years ago with gaining my chartership and then my development following on from that.

**Scott Steedman**

ICE is the main qualifying body for civil engineers. It's very important that you can have somewhere that you can turn to that has the answers that you're looking for. The institution is looked to for authoritative and independent advice and as such we provide profession qualifications that are recognised around the world as a sign of dedication and commitment and expertise and skill.

**Ross Smith**

Once you graduate you sign up to a training agreement and that sort of dictates how you learn to achieve chartered status which is kind of a real benchmark of quality and success within the industry.

**Scott Steedman**

Professional qualifications matter, because when you qualify, you join a community of highly qualified experienced professionals. It doesn't matter if you are aiming for technician, incorporated or chartered. All grades of membership are valued by the ICE and in the work place. The Institution is there to look after you as a professional engineer.

**Ross Smith**

Through being a member of the graduates and students it has helped me to meet other people who are in similar situation to me.

**Scott Steedman**

We need civil engineers to stand up and be proud of the fact that they are civil engineers and that they are doing something really important for society.

**Ross Smith**

Are you ready to build a better world?

**Claire Carr**

Are you ready to build a better world?

**Dan Cruikshank**

Are you ready to build a better world?

*[Text - Are you ready to build a better world?]*

*[Text - ICE Institution of Civil Engineers]*

*[Text - ice.org.uk]*