Engineers create our physical world; they make things that work and make things work better for us.

Engineers are doers; they seek out problems and visualize and engineer creative solutions and improvements. Engineers look, adapt, evaluate, decide, take action, re-evaluate, and develop solutions in the service of mankind in an iterative process that solves new problems in a continuous virtuous spiral of progress.

Engineers make choices based on probable outcomes. In their drive to produce something of value, engineers make decisions between conflicting demands; between costs and benefits. Choices have consequences and engineers walk a fine line between hindsight and foresight. We learn from our mistakes and we adapt in order to avoid them in the future; hindsight is useful but it always comes after the event but foresight although more difficult is still part and parcel of the engineering profession.

As part of our efforts to train the engineers of the future, we teach our students to see themselves as practitioners of their chosen profession and this perception is heightened through knowledge and practice.

At Sheffield we are investing in infrastructure and personnel that will allow us to do just that; impart knowledge and provide opportunities to practice that knowledge as professionals do. We train our young engineers to break down disciplinary boundaries, through activities such as the Global Engineering Challenge, where they work in interdisciplinary collaboration to solve real problems affecting parts of the developing World.

Interdisciplinary problem solving allows 'creative leaps' to be made that would not be otherwise possible. We ask our students to imagine the world they want to live in and work towards achieving their dream.

Turning Dreams to Reality; that is what our engineers are trained to do!