

WHY PHYSICS?

Supporting the science of everything



Physics is the science of – everything. It is the ancient, endless quest to understand the fundamental processes of reality itself, at every level from the subatomic to the macrocosmic – and to apply this ever-deepening knowledge to the betterment of our world.

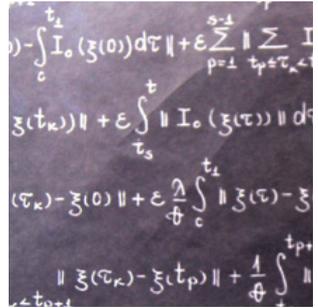
The depth and reach of physics support developments in every field of scientific endeavour: medical breakthroughs, technological innovation, startling advancements in manufacturing, materials, communications, energy, environmental protection and much more. It informs and refines our understanding of existence, and our place within it, constantly opening up new vistas of possibility for the human community and for individual lives.

However, even the most enlightened governments can struggle to easily justify financial investment in physicists’ research – many of the applications of physicists’ research to the development of technologies were unforeseen as their research commenced – yet blue-sky thinking and unconstrained collaboration amongst scientists has proven invaluable to mankind.



The dynamics of physics

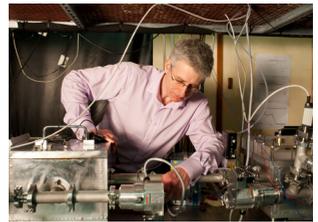
Physicists do more than develop and run experiments which observe nature and uncover new phenomena – they build and analyse mathematical models that can give us an understanding of the data and make predictions of new phenomena that can, in turn, be tested in experiments. This dynamic process has generated profound insights and world-changing results through the centuries. For example, much modern technology, ranging from laptop computers to GPS systems, depends on the predictive power of the mathematical understanding of nature that has been developed by physicists over the past 200 years.



Partnership, insights and benefits

The nature of physics makes it an ideal partner for philanthropy. Some of the greatest and most effective discoveries in physics have arisen, unlooked for, as scientists following the path of free inquiry stumbled across new paths, new insights. Many of these insights can take decades to reach their full potential – the first lasers were developed over 40 years after Einstein's initial research but it was then over a decade until lasers were developed and integrated into the array of technologies that are around us today.

For ground-breaking discoveries, made through the freedom and serendipity of fundamental research, to be translated into world-changing applications the physics community relies on benefactors. People with rare vision, who recognise the intrinsic value and boundless potential of the pursuit of knowledge to transform the future .



We invite you to join this exciting quest. Step forward with us into new worlds of discovery, knowledge and transformation.
