

technocamps

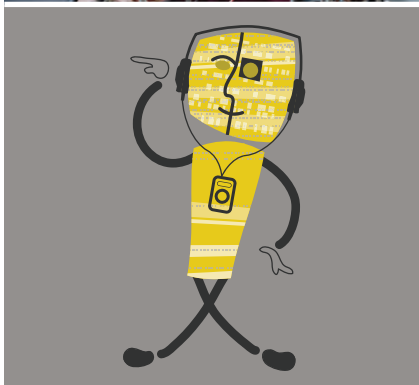
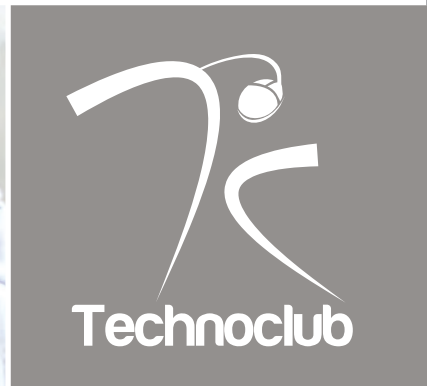
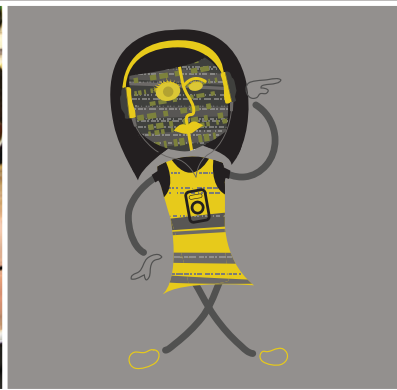
Inspiring | Creative | Fun



WHAT CAN TECHNOCAMPS DO FOR YOU?

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WHAT IS TECHNOCAMPS?

Technocamps is a £6 million project led by Swansea University in partnership with the Universities of Aberystwyth, Bangor and Glamorgan that provides daily and weekly sessions to young people aged 11-19 on a range of exciting computing-based topics such as programming, robotics, cryptography, animation and much more.

Backed by £3.9 million from the European Social Fund through the Welsh Government, the project delivers a series of outreach programmes to schools, colleges and other educational providers within the convergence area of Wales, inspiring young people to consider the computing-based topics underpinning the STEM subjects (Science, Technology, Engineering and Mathematics). Technocamps has the long term goal of encouraging them to pursue careers in an area that will drive economic growth in Wales.

Girls are under-represented within the technology sector, so Technocamps will seek to address this problem by delivering sessions specifically targeted at the needs and wants of girls. The project will also work with young people who have been categorised as NEET (Not in Employment, Education or Training) as well as those that are at risk of falling into that category.



www.technocamps.com

WHO WILL BENEFIT...?

TECHNOCAMPS AND YOUNG PEOPLE

Technocamps is about getting young people in Wales excited about computing and challenging them to think about the world around them in a different way. We know young people are learning how to use ICT tools, but are they learning about the fundamental building blocks that are the backbone to the ICT they use?

Working with schools, colleges and educational establishments, we will provide the young people with day long taster sessions in computing. We will show how these skills are used in the real world, by letting pupils know and understand potential career paths available to them should they wish to progress in this exciting and fascinating field.

The young people will then continue their journey in the fun and stimulating atmosphere of an extracurricular 'Technoclub'. Using resources made available by Technocamps in addition to their teachers' inspiration, they will be encouraged to develop their newly found skills by working in teams and have the opportunity to work with - or even compete against - Technoclubs from other schools and colleges online.



“Rather than users of technology, we want the young people we work with to imagine themselves as the creators of the next Facebook or next generation smartphone, or better yet something unimaginable that is going to radically change the world!”

Professor Faron Moller
Director of Technocamps



TECHNOCAMPS AND TEACHERS/EDUCATORS

“A day of fun in a University at the age of 11 is a wonderful experience. They have enjoyed immersing themselves in high order ICT skills using the latest technology, with experts as their mentors.”

Sandra Joy

Deputy Headteacher of Morrision Comprehensive School, Swansea

HOW CAN YOU HELP?

Technocamps takes a creative approach to Computing and the STEM subjects and your input is vital. We will let you know about the workshops we're offering, and provide you with supplementary resources to continue the young person's development.

Once the Technocamps workshop is over, you'll be given all the tools you need to establish and run an extracurricular 'Technoclub' to further inspire the Technocamps participants. Each Technoclub project has been broken down into manageable stages, so the groups have time to research, develop, create and market their new creative idea.

WHAT WILL YOU GET OUT OF IT?

The work of Technocamps will support and enhance the ICT and computing curricula taught in schools and colleges. The project does not take the place of the teachers, but through our 'Technoteach' up-skilling programme we will support your development via workshops and events designed specifically for STEM teachers. We want to create an environment where you can share ideas and best practice with other teachers.



TECHNOCAMPS AND PARENTS/CARERS

Technocamps knows the important role parents can play in supporting their children in finding the right career path. We all know that young people today understand how to use computers; through online gaming, social media and the use of the Internet; but this only makes them consumers of technology.

The need for the next generation computer programmers and IT developers continues to increase across a whole spectrum of careers with demand continuing to far outstrip supply, especially in Wales and across the UK. For instance, did you know that sectors such as retail, music, health and hospitality employ IT professionals?

Our workshops provide a great opportunity for young people to gain a real insight into computational thinking in a fun and practical way. We hope your child will have left wanting to know and do more in this exciting subject.

HOW CAN YOU HELP?

1. When your child returns home after their workshop, encourage them to show you what they have learnt. They can continue to develop their computing skills by downloading the free online resources and software available. All can be found at www.technocamps.com/resources
2. Ask questions about the Technoclub; are they interested in setting up a club? If so, have a chat with your school/college and other parents to look into ways they can run this club outside of school hours.
3. Let us help you maintain their enthusiasm within this exciting and engaging topic. Explore the exciting career options out there for them in computing by visiting www.technocamps.com or related sites such as www.bigambitionwales.com



Stuart Ball, Microsoft Partners in Learning Programme Manager UK



David Thomas, Forensic Operations Manager, South Wales Police

‘There is a very good chance that the next creator of Mario, Sonic the Hedgehog or Lara Croft could come from Wales. The fantastic resources and training that Technocamps offer students and teachers in Wales, are inspiring a whole new generation of programmers and computer scientists. It wouldn’t surprise me if we see the next Bill Gates coming from the Rhondda!’

Stuart Ball
Microsoft Partners in Learning Programme Manager UK

TECHNOCAMPS AND BUSINESS/INDUSTRY

HOW CAN YOU HELP?

Technocamps is looking for inspirational role models in industry who want to help raise the profile of what exciting career choices there are on offer in technology for young people in Wales. The project would like to capture roles out there, some that they would least expect. To do this Technocamps would like business professionals to come along to workshops to speak to the young people about their jobs.

So, if you are a web developer, a games developer, a professional programmer or simply work in an exciting role that you think would inspire young people to follow a career in STEM and are able to spare an hour of your time, then we want to hear from you.

WHAT WILL YOU GET OUT OF IT?

It will give you an opportunity to raise your business profile with young people across Wales who could potentially end up as future employees. The project is also looking to interview business people and create video clips of career opportunities on offer to young people.

www.technocamps.com



TECHNOCAMPS AND THE WELSH ECONOMY

Technocamps has been designed to nurture and inspire future generations of highly skilled digital enthusiasts, who will not only develop our on-going science and technology needs but could also make Wales a world leader in the development of new and advanced technologies.

During the next five years the Sector Skills Council for the industry (e-Skills UK) predicts that the Welsh sector will require 20,000 highly skilled computer programmers within the whole spectrum of industry. This is stark news when we know that Computer Science graduates have steadily declined since 2004 - with fewer than a thousand computing graduates in Wales during 2010.



“It is vital that we encourage young people to engage with STEM (Science Technology Engineering and Mathematics) subjects, so I was delighted by the setting up of Technocamps. Solving real problems can give learners opportunities to develop STEM literacy.

“The use of ICT in schools has developed significantly over the past decade, but there is still more to do. We all need to encourage learners to develop the higher level technology skills which will provide valuable opportunities for them, and will help grow Wales’ digital economy.”

Jeff Cuthbert
Wales’ Deputy Minister for Skills

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