



Tackling the Electronics Skills challenge in the UK

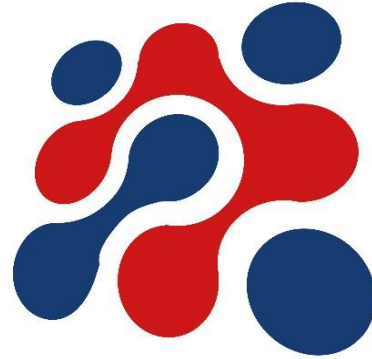
CPE 2022 Conference

6th July 2022

Connecting most capable students from top universities with leading employers



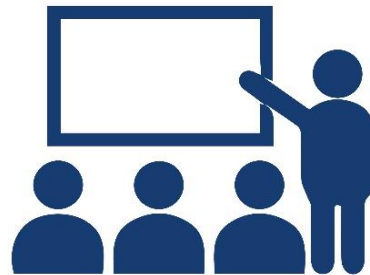
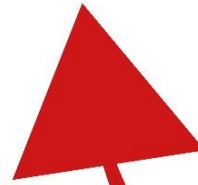
University



UK Electronics Skills Foundation



Industry



School



Encouraging more young people to study Electronics

UKESF Partner Universities 2021



THE UNIVERSITY
of EDINBURGH



Imperial College
London



UK Students University Acceptances



Acceptances from UK Domiciled Students on Engineering & Computer Science Degree Courses 2012-2021¹

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All UK Domiciled Students										
Civil Eng HE Acceptances (H2)	3,100	2,990	2,805	3,115	3,315	3,450	3,440	3,255	3,430	3,485
Mech Eng HE Acceptances (H3)	5,260	5,800	6,070	6,690	6,750	6,515	6,545	6,425	7,030	7,050
E&E Eng HE Acceptances (H6)	3,210	3,425	3,350	3,525	3,510	3,330	3,150	2,965	3,105	3,245
General Engineering (H1)	2,730	3,110	3,780	4,085	4,010	4,165	4,025	4,260	4,115	4,305
Engineering HE Acceptances (H)	19,050	20,660	22,325	24,000	24,015	23,880	23,430	23,215	24,195	24,675
E&E Eng as % of overall	17	17	15	15	15	14	13	13	13	13
Computer Science HE Acceptances (I1)	11,190	12,820	13,825	15,410	15,700	15,620	15,430	15,110	15,975	15,765
UK Females										
<u>Overall</u> HE Engineering	2,245	2,415	2,990	3,510	3,685	3,755	3,840	3,915	4,035	4,240
E&E Eng HE Acceptances	225	240	265	280	310	295	305	255	290	335

Data accessed from: [UCAS Undergraduate sector-level end of cycle data resources 2021 | Undergraduate | UCAS](#)

ELECTRONICS

The electronics recruitment industry has continued to bounce back with a vengeance and has never been busier. Generalist Electronics Engineers are in high demand in almost every area of the UK. Specialist skills within Power, RF and FPGA are particularly sought after, yet increasingly difficult to secure as Brexit and COVID continue to diminish international relocation. The freelance market has started to pick up again, but still not withing reach of pre IR35 levels. Most companies are now coming to grips with the necessary extra bureaucracies involved with IR35 determinations and the processes are much quicker and smoother.

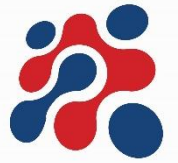


Experience		Graduate	3 years	5 years	10 years	12+ years
Electronics Design <i>(RF, Digital, Analog, FPGA)</i>	<i>Perm (p.a)</i>	£32,000	£45,000	£55,000	£65,000	£65,000+
	<i>Cont (p.h)</i>	-	£30	£40	£45	£45+
Power Electronics		£35,000	£50,000	£60,000	£70,000	£75,000+
		-	£30	£40	£45	£45+
Optical Photonics		£32,000	£45,000	£55,000	£65,000	£65,000+
		-	£30	£40	£45	£45+
Electronics Test Validation		£30,000	£40,000	£45,000	£55,000	£55,000+
		-	£25	£30	£40	£40+
Mechanical Design		£28,000	£35,000	£45,000	£55,000	£60,000+
		-	£25	£32	£40	£40+
Manufacturing Process		£28,000	£35,000	£45,000	£55,000	£60,000+
		-	£25	£32	£40	£40+
Quality Compliance		£28,000	£38,000	£45,000	£55,000	£60,000+
		-	£30	£35	£40	£40+
Functional Safety		£40,000	£50,000	£60,000	£70,000	£75,000+
		-	£35	£40	£45	£45+

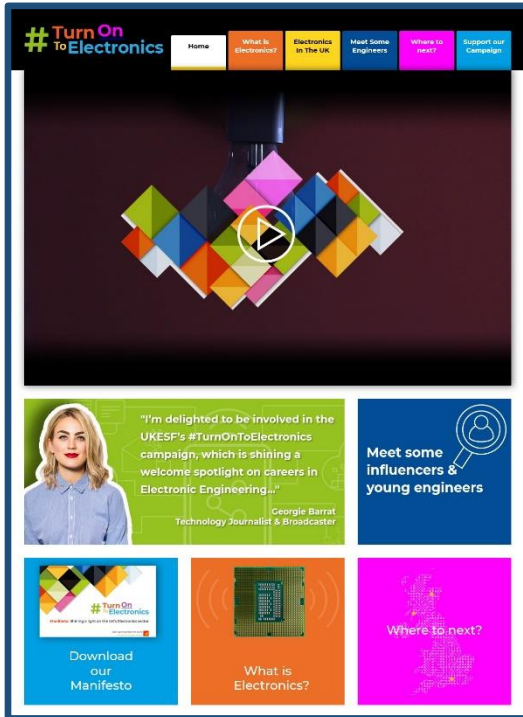


Taken From IC_Resources End of Year Salary Review: [Salary Review 2021 mid.pdf \(ic-resources.com\)](https://www.ic-resources.com/Salary-Review-2021-mid.pdf)

The UKESF Programme



UK Electronics Skills Foundation



Campaigning to promote Electronics & raise awareness among children

A-level Electronics projects & support for schools/teachers

University Taster Courses

Undergraduate Scholarship Scheme

Skills Consultancy



**UK Research
and Innovation**



**UK Electronics
Skills Foundation**

Driving the Electric Revolution Undergraduate Award

Supporting First year EEE degree course (Second year for Scottish universities) or Foundation year course students at UKESF partner universities, who have an interest in Power Electronics, Machines and Drives (PEMD)

A collaboration between UK Research and Innovation (UKRI) and the UKESF to promote PEMD among undergraduate engineers in the Electronics sector in the UK



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**UK Electronics
Skills Foundation**

Thank You

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