

Academy of Computing June 2014 Overview

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Themes

Academy Board Themes

- Computing at School
- Education and pathways into the computing profession
- Promotion of computer science
 - Societal and economic benefit of computer science for the UK
 - Improving diversity in education and research



Department
for Education

According to the DfE in June 2014, CAS as part of BCS:

- “Has stepped up to the challenge of training our existing ICT (soon to be computing) teachers to deliver the new programme of study with confidence and enthusiasm.”
- and is “vital to ensuring teachers are equipped to deliver the new computing curriculum”

Total value of Computing in school grants

Cash value of 'live' grants and teaching scholarship scheme to
BCS Academy

£6,710,000

Cash value of grants and teaching scholarship scheme over 3
years:

£8,960,000

Barefoot Computing, Computer Science readiness programme for primary schools

Grant £1,094,500

Timescale: Jan 2014 – March 31 2015

Aims:

- 800 computing workshops in primary schools
- 20,000 primary teachers engaged in CAS hubs
- produce classroom ready computer science resources that also enhance maths, English and science

Staff:

- 1 project manager (full time)
- 20 local outreach organising partners (FTE 1 full time each)
- 2.5 FTE teachers secondment
- 2 curriculum experts (64 days)
- 200 volunteer 'Barefoot Geeks'

Network of Teaching Excellence in Computer Science

Grant £2,085,690

Timescale: April 1 2013 – March 31 2015

Aims:

- Train 400 Master Teachers
- offering Computer Science CPD to 16,000 teachers/year by end of grant (have provided CPD to 7,000 so far)

Currently: 150 MT-s, 80 universities, 1050 schools

Staff:

- 1 Project Coordinator (half time)
- 1 National CPD Coordinator (full time)
- 1 Academic Coordinator (full time)
- 2 Admin Assistants (full time)
- 20 Regional Coordinators (teachers who provide 1 day/ week)

Anglia Ruskin	Chester	Leeds	Northampton	Sheffield Hallam
Aston	Coventry	Leicester	Northumbria	Southampton
Bath	Durham	Lincoln	Nottingham	Staffordshire
Bedfordshire	East Anglia	Liverpool	Nottingham Trent	Sunderland
Birkbeck	Edge Hill	Liverpool Hope University	OU	Surrey
Birmingham	Gloucestershire	Liverpool John Moores	Oxford	Sussex
Birmingham City University	Greenwich	London Metropolitan	Oxford Brookes	Teesside
Bournemouth	Hertfordshire	London South Bank	Plymouth	The University of Sussex
Bradford	Imperial	Loughborough	Portsmouth	UCL
Brighton	Institute of Education	Manchester	QMUL	UEA
Bristol	KCL	Manchester Metropolitan	Reading	University College Plymouth St Mark & St John
Brunel	Keele	Newcastle	Roehampton	UWE
Cambridge	Kent	Newman University College	Royal Holloway	Warwick
Central Lancashire	Lancaster	Newport	Sheffield	Westminster
		York	Worcester	Wolverhampton

Scholarships for Trainee Computing Teachers

Value £2,650,000

(£2,500,000 value of scholarships, £150,000 grant to run scheme)

Timescale: October 1 2013 – September 31 2014

Aims:

- award 100 Scholarships worth £25,000 each to trainee computer science teachers
- work with employers to select suitable scholars

Currently: Microsoft, Google, HP, IBM, BT, Toshiba, Ocado, Metaswitch Networks, Morgan Stanley, Goldman Sachs, Compare the Market, Citrix

Staff:

- 1 Project Coordinator (part time)
- 1 Admin Assistant (part time)

Scotland: CPD programme for Computing Teachers

Grant £400,000

Timescale: April 1 2013 – March 31 2015

Aims:

- develop 20 local practitioner hubs for teachers
- train 20 lead practitioners
- run CPD courses for approx. 220 staff

Staff:

- 1 Project Coordinator (part time)
- 2 Project officers (seconded part time)
- 1 Admin Assistants (1 day/week)

Countdown to Computing: Matched funding to expand CAS hubs

Grant £334,000 from Microsoft + £150,000 from DfE = £484,000
Timescale: 12 months from June 2014

Aims:

- Double CAS hub network to 200 and NoE Lead Schools to 500 (presently there are 87)
- Provide 40,000+ CPD shrink-wrapped CPD courses to schools and teachers across England

Staff:

- 1 six month full time project coordinator
- 2 full time additional CAS Coordinators (1 year contract)
- 2 teachers part time as authors

Computing At School Group

Cost £130,000 (from BCS central budget)

Mission:

- run local hubs across UK (currently 100+), run CPD events (currently ~300/year)
- grow membership to include every school (currently 12,900 members)
- ensure every child has an outstanding computer science

Staff:

- 1 Project Coordinator (part time)
- 1 support staff (part time)