Step into a career in Bioinformatics

Level 2
Programme: Level 2 Healthcare Science Assistant Apprenticeship
Award: Level 2 Diploma in Healthcare Science
Funded by: Government Apprenticeship levy
Provided by: Education providers

Level 8
Programme: Higher Specialist Scientist Training (HSST) in Bioinformatics Genomics, Clinical Scientific Computing (Physical Sciences) or Health Informatics
Award: CCHSST, DClinSci & eligibility to join the AHCS Higher Specialist Scientist Register
Funded by: NHS England
Provided by: NHS England & Universities

Level 6
Programme: BSc (Hons) Bioinformatics Genomics (with or without foundation year)
Award: BSc (Hons) Healthcare Science
Funded by: Student loan
Provided by: University of West London

Level 4
Programme: Level 4 Healthcare Science Associate Apprenticeship
Award: Level 4 Diploma in Healthcare Science
Funded by: Government Apprenticeship levy
Provided by: Education providers

Level 7
Programme: Level 7 Bioinformatics Scientist Apprenticeship
Award: MSc Bioinformatics
Funded by: Government apprenticeship levy
Provided by: Universities

Level 7
Programme: Level 7 Postgraduate Certificate in Clinical Data Science
Award: Postgraduate Certificate in Clinical Data Science
Funded by: NHS England
Provided by: University of Manchester

Level 7
Programme: Scientist Training Programme (STP) in Clinical Bioinformatics Genomics, Clinical Informatics or Clinical Scientific Computing
Award: CCSTP, MSc Clinical Science & eligibility to join the HCPC register as a Clinical Scientist
Funded by: NHS England
Provided by: NHS England & Universities

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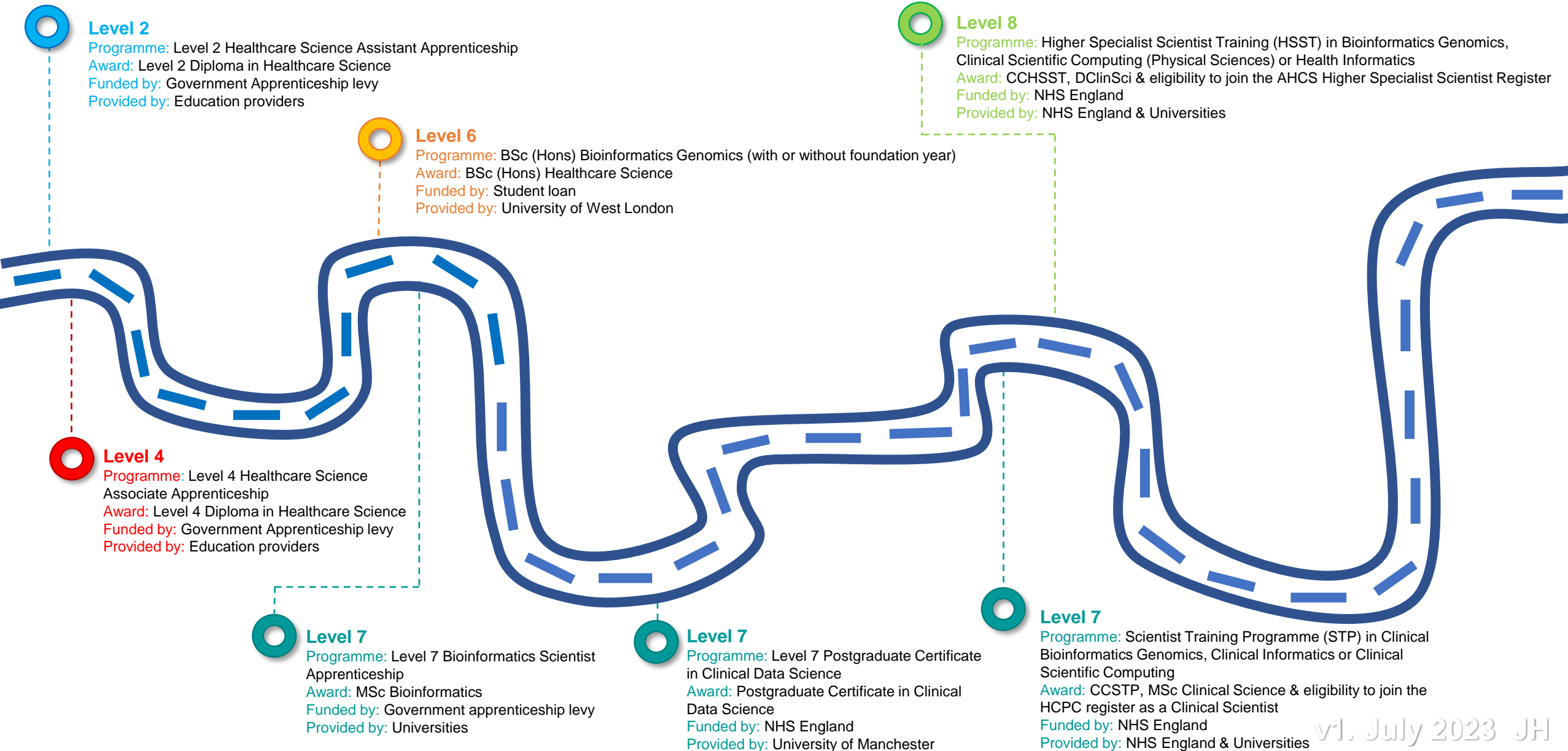**Level 2 Healthcare Science Assistant Apprenticeship providers**
- Association of Health Professions in Ophthalmology
- Barnsley College
- City College Plymouth
- CSR Scientific Training
- Dudley College of Technology
- Dynamic Training Ltd
- Essex County Council
- Halesowen College
- Heart of Yorkshire Apprenticeship Group
- HTP Apprenticeship College Ltd
- Jag Training Ltd
- Macclesfield College
- Newham College of Further Education
- Sheffield College
- Southport College
- Steadfast Training Ltd
- Trafford College Group
- Wakefield College
- Wirral Metropolitan College

Level 2 Healthcare Science Assistant Apprenticeship eligibility
See education provider for specific requirements - Healthcare science assistant (level 2) - apprenticeship training course (education.gov.uk)

Level 4 Healthcare Science Associate Apprenticeship providers
- Association of Health Professions in Ophthalmology
- City College Norwich
- Coventry University
- CSR Scientific Training
- Dudley College of Technology
- Dynamic Training Ltd
- Halesowen College
- Heart of Yorkshire Apprenticeship Group
- Kendal College
- Macclesfield College

- Sheffield College
- Steadfast Training Ltd
- Wakefield College
- Wirral Metropolitan College

Level 4 Healthcare Science Associate Apprenticeship eligibility
See education provider for specific requirements Training providers for Healthcare science associate (level 4) (education.gov.uk)

Level 6 BSc (Hons) Bioinformatics Genomics providers
- University of West London

Level 6 BSc (Hons) Bioinformatics Genomics eligibility
A levels or equivalent, see university website for specific requirements.

Level 7 STP MSc Clinical Science (Clinical Bioinformatics Genomics / Clinical Scientific Computing / Clinical Bioinformatics) providers
- Manchester Academy for Healthcare Scientist Education (MAHSE)

Level 7 STP Clinical Bioinformatics Genomics / Clinical Scientific Computing / Clinical Informatics eligibility
Undergraduate honours degree or an integrated Master's degree (1st or 2:1), in a pure of applied science subject relevant to the specialty for which you are applying OR higher degree in a relevant subject & undergraduate honours degree (2:2) in any subject.

Level 7 Bioinformatics Scientist Apprenticeship providers
- Cranfield University
- University of West London

Level 7 Bioinformatics Scientist Apprenticeship eligibility
See university website for specific requirements

Level 7 Postgraduate Certificate in Clinical Data Science provider
- University of Manchester

Level 7 Postgraduate Certificate in Clinical Data Science eligibility
See university website for specific requirements: PGCert Clinical Data Science - entry requirements (2023 entry) | The University of Manchester

Level 8 HSST DClin Sci (Bioinformatics - Genomics / Bioinformatics - Physical Sciences / Bioinformatics – Health Informatics) provider
- Manchester Academy for Healthcare Scientist Education (MAHSE)

Level 8 HSST Bioinformatics Genomics / Clinical Scientific Computing (Physical Sciences) / Health Informatics eligibility
HCPC registered Clinical Scientist with at least one-year post-registration experience.

Programme duration
- Scientist Training Programme (STP) – 3-year programme
- Higher Specialist Scientist Training (HSST) – 5-year programme
- Level 6 BSc Bioinformatics Genomics – 3-year programme
- Level 7 Postgraduate Certificate in Clinical Data Science – 1-2-year programme
- Level 7 Bioinformatics Scientist Apprenticeship – 2.5-year programme

Education levels
1. GCSE grades 3-1; L1 NVQ etc.
2. GCSE grades 9-4; L2 NVQ etc.
3. A level; AS level; L3 NVQ etc.
4. HNC; L4 NVQ
5. Foundation (Undergraduate)
6. Bachelors (Graduate)
7. Masters (Postgraduate)
8. Doctorate (Consultant)

Professional Bodies
- BCS – The Chartered Institute for IT
- FEDIP – Federation for Informatics Professionals
- IHRIM – Institute of Health Records & Information Management
- IPEM – Institute of Physics and Engineering in Medicine

Registration
- HCPC – Clinical Scientist (statutory)
- UKCHIP – Health Informatics Professional (voluntary)

Equivalence
- AHCS - https://www.ahcs.ac.uk/equivalence/
- ACS - https://assclinsci.org/applicants/my-route-to-registration/

Other training & qualifications currently available
- Genomics Education Programme - Welcome to Genomics Education Programme - Genomics Education Programme (hee.nhs.uk)
- Certificate in Health Informatics (CHI) - Health Informatics Certificate (health-informatician.com)
- Diploma in Health Informatics (DHI) - Health Informatics Diploma (health-informatician.com)

Useful websites
- ACM - Association for Computing Machinery (acm.org)
- AHCS - The Academy For Healthcare Science - AHCS
- BCS - BCS, The Chartered Institute for IT | BCS
- FEDIP - Health And Care Informatics | The Federation for Informatics Professionals (fedip.org)
- Genomics England - Homepage | Genomics England
- GEP - Welcome to Genomics Education Programme - Genomics Education Programme (hee.nhs.uk)
- HCPC - The Health and Care Professions Council (HCPC) | (hcpc-uk.org)
- HealthInformatics.com - What is Health Informatics? - for Health Informaticians (health-informatician.com)
- IHRIM - Institute of Health Records and Information Management (IHRIM) - IHRIM
- IPEM - IPEM Home - IPEM
- NSHCS - National School of Healthcare Science | Health Education England | NHS (hee.nhs.uk)

Further information
- ACM – Association for Computing Machinery
- AHCS – Academy of Healthcare Science
- BCS – The Chartered Institute for IT
- FEDIP – Federation of Informatics Professionals
- GEP – Genomics Education Programme
- HCPC – Health & Care Professions Council
- IHRIM – Institute of Health Records & Information Management
- IPEM – Institute of Physics and Engineering in Medicine
- NSHCS – National School of Healthcare Science
- UKCHIP – UK Council of Health Informatics Professionals