



AMPLEFORTH
COLLEGE

Head of Computer Science



Welcome from the Headmaster

Thank you for your interest in this role.

Ampleforth is a very fulfilling place to work, particularly because it is a school with a mission. As Catholic educators, we seek to educate the whole person, mind, body and spirit, supporting our pupils to fulfil their potential and to flourish in all aspects of life. Everyone can benefit from being part of and contributing to this enriching education, whether you are Catholic or not.

Ampleforth's community ethos, rooted in the tenets of our Benedictine monastic founders, is centred on being welcoming to all, caring for each other, and valuing inclusion, empathy and compassion. We aim to form responsible young people of integrity and courage, proactive members of society who serve others and do good in the world. As such, an Ampleforth education provides a compass for life. Our ethos extends to the whole community, students, families, staff, alumni and visitors. Leading the team here is a joy, as well as a privilege and an honour.

Ampleforth offers the highest possible level of pastoral care, embedded within a robust safeguarding culture. Our pupils are happy, well-balanced and grounded; each one is known well by staff and cherished. We want the very best for them and work hard to help them achieve it.

Good and inspiring teaching is key, and every pupil is challenged academically. We cultivate intellectual curiosity, critical thinking and independence of mind, all vital for further studies after school and to thrive in our complex world. Alongside the pursuit of academic excellence, the lessons gained from music, drama, art, and sport are equally important for developing the whole person, the well-rounded character that Ampleforth appreciates.

The dedication of the Governors, the whole staff, and the many friends and supporters of Ampleforth inspires me to give all I can to our collective goal of being the world's foremost Catholic boarding and day school.



*Jon Mutton,
Headmaster*



Our Mission

"An Ampleforth Education is an invitation to young people to discover the value and the purpose of life, by entering into a transforming encounter with Christ through active participation in the life of a living Christian Community."

Our Benedictine values:

Catholic education and Benedictine values underpin everything we do at Ampleforth, whether a student or member of staff is Catholic or not. We believe that humanity is a gift we receive through others and that our relationships unlock the unique potential in each person. Our values provide the foundation to all of our work and how we work with one another:

Respect: recognising and nurturing the unique talents of every individual and oneself, understanding that we grow and learn from our differences and are made a better person by each other.

Hospitality: committing to live in such a way as to be welcoming and open to all, and to invite people to experience living life more fully in our community.

Attentiveness: being sensitive to the needs of others as well as one's own needs and supporting the mutual well-being of everyone in the community; wanting what is best for each other.

Equilibrium: nurturing the well-being and resilience of each individual and one's own, and thereby of the community, to achieve mental and emotional balance and personal fulfilment.

Stewardship: cultivating a sense of responsibility and care for the people and the world around us, as well as oneself, to ensure our community and environment thrive.

Integrity: developing within ourselves strong principles, sound judgement, and the resilience needed to do the right thing.

A Snapshot of the College

Founded in 1802 and set in a beautiful Yorkshire valley, Ampleforth College is the world's foremost Catholic day and boarding school, welcoming girls and boys of all faiths aged 11-18.

Ampleforth College at a glance 2020-2025



Over
200 Pupils
awarded a bursary

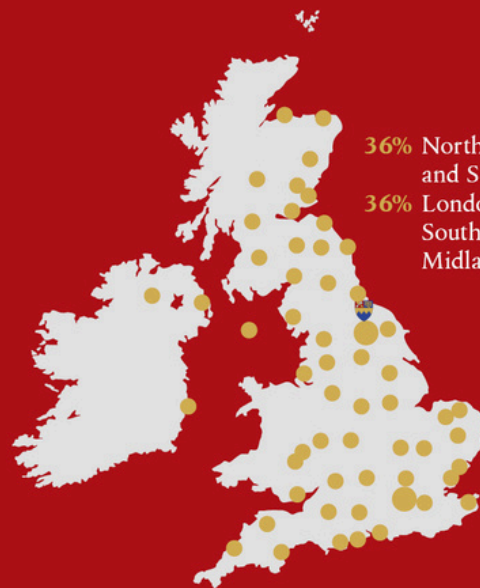
20 Subjects
offered at GCSE

30 Sixth Form options
(25 A Levels,
4 vocational BTEC
courses, and 1 Advanced
Subsidiary Level)



88% achieve a place at
their first choice university

Home for our pupils is:



36% North of England
and Scotland

36% London, South East,
South West, East Anglia,
Midlands and Wales

Over **70** outreach and partnership events every year
for local schools and the Diocese

More than **2,500** children from our local area benefit each
year from Ampleforth's facilities and partnerships programmes

20% Europe including: Spain, France, Austria, Germany,
Benelux, Poland, Ireland, Gibraltar and Malta

8% Rest of World including: South America, USA, Mexico,
Hong Kong, China, Malaysia, Singapore, Kenya and Nigeria



The Computer Science Department

Aims of the Computer Science department:

Computer Science is the scientific and practical study of computation and problem solving. At Ampleforth we not only teach the digital literacy skills required to thrive in a digital world but we also embrace computational thinking as a tool for developing the logic and problem solving skills which set apart our students from their peers. We aim to equip them for Computer Science as an academic discipline and as an essential tool to make a positive impact on the world.

The department aims to encourage the following:

- To use abstraction, decomposition, pattern recognition and algorithmic thinking to analyse and solve complex problems
- Learn to be confident in using a broad range of software packages required to excel in a digital world.
- To recognise the legal, cultural and ethical implications of computing in society to become a responsible digital citizen and user of technology.
- To use technology to enhance their creativity.
- To learn to code and solve problems in at least one programming language by the end of key stage 3, two by the end of key stage 4 and 3 by the end of key stage 5.

Syllabus:

Year 7

After an introduction to our school's computer systems and the important task of teaching them to be responsible digital citizens the year 7 cohort explore a varied and broad curriculum. A unit on the use of Microsoft Excel begins to build on a student's digital literacy, a web development project helps them explore their digital creativity and a unit on computer architecture gives them an insight into the structure of computers and how they work. In their first year with us our Students will also be introduced to the core programming concepts of sequence, selection and iteration.

Year 8

In year 8 our students enhance both their digital literacy and digital creativity skills and knowledge through a unit of work using Microsoft Publisher where they will produce their own magazine. Our year 8s will then use the Small Basic programming language to complete a series of programming challenges which will both further encourage their computational thinking abilities and introduce them to several programming techniques essential to the modern developer. A unit of work on Data Representation gives them exposure to some key Computer Science concepts such as Binary, Hexadecimal and compression.

Year 9

Year 9 provides our students with the opportunity to enhance their computing skills and to prepare themselves for the subject at GCSE level. A rigorous unit in Python enhances the programming concepts introduced in year 8 while really challenging their computational thinking skills in a text based high level-programming language. Following this our students will work on the fundamentals of logic and problem solving in computing as they continue to write increasingly complicated algorithms. This will provide an excellent basis for those who wish to continue their studies on to GCSE level and will provide all students with essential and transferable skills they will take with them in whichever field they choose to study.

GCSE

The AQA GCSE (9-1) syllabus provides students with exposure to real-world programming and computer science skills. This is an academically challenging course while remaining suitable to students of all abilities. The course covers:

- Algorithms
- Programming
- Data Representation
- Computer Systems
- Networks
- Cyber Security
- Ethics
- Databases and SQL

The course is assessed with two exams, one on theory and the other on programming both worth 50% of their overall mark. There is also a Non Examined Assessment consisting of a programming task which they are required to pass. This is delivered in class time.

A Level

Advances in computing are transforming the way we work and the AQA A-Level Computer Science curriculum reflects these changes. An academically rigorous course, A-Level Computer Science requires a strong mathematical skill set and the ability to solve complex problems. The course covers:

- The Fundamentals of Programming
- Problem Solving
- Data Structures
- Algorithms
- Regular Languages
- The Internet
- Databases and Software Development
- Object Oriented and Functional Programming
- Data Representation
- Hardware and Software
- Computer Organisation and Architecture
- Communications

The course is assessed with two final exams each contributing 50% to the overall grade. These cover theory and a practical programming paper.



Head of Computer Science

JOB DESCRIPTION:

The post holder is required to provide subject expertise and lead the curriculum in Computer Science subjects.

You will provide advice and guidance to subject teachers and will teach lessons in that subject throughout the School. You will meet with the other Heads of Subject within the faculty, and will support the Head of Faculty in developing the quality of teaching practice within your subject. Through sharing your views and ideas with the Head of Faculty, you will contribute to the development of the School's academic strategy and operation.

Carrying out duties in the most cost-effective and efficient way, you will follow all legislation, as well as our own policies and procedures, relating to working with children, safeguarding, and Health and Safety.

Key Responsibilities:

- Be responsible for curriculum development and produce schemes of work
- Organise setting, producing and marking of internal exams
- Have overall responsibility for the allocation of subject grades and targets
- Administer entries for external exams in consultation with the Examinations Officer
- Represent and promote the subject within the school, for example at parents' meetings and sixth form subject presentations
- In consultation with the subject teachers, choose and order textbooks, reference books and stationery etc. Consult with the Librarian about books for the Library
- Be responsible for staff development within the subject
- Conduct regular subject meetings
- Support recruitment to subject posts, for example through writing job descriptions, shortlisting and observing lessons and assessing subject knowledge
- Liaise with the Head of Higher Education and Careers and give advice to university applicants concerning the subject and supervise Oxbridge pupils
- In consultation with the Deputy Head Academic, be responsible for staffing and timetable allocation within the subject, including the organisation of sets

“There is a strong team spirit and colleagues are always helpful and supportive. Specialist training is provided which means I am building a new set of skills, and there are opportunities for development. Staff well-being is given a high priority and being in a beautiful location makes coming to work a pleasure.”

Carolyn, Compliance Administrator

Key Responsibilities continued:

- Be responsible for staff development within the subject
- Conduct regular subject meetings
- Support recruitment to subject posts, for example through writing job descriptions, shortlisting and observing lessons and assessing subject knowledge
- Liaise with the Head of Careers and give advice to university applicants concerning the subject and supervise Oxbridge pupils
- In consultation with the Deputy Head Academic, be responsible for staffing and timetable allocation within the subject, including the organisation of sets
- Contribute to the management and development of Ampleforth College as a whole
- Support with the preparation of an annual budget proposal
- To ensure the subject information held by Admissions and contained in the options booklets is up-to-date
- Run ad hoc activities for feeder schools and prospective students to support the marketing of the school
- Support with the preparation for ISI inspections
- Representing Ampleforth College in regional and national forums when appropriate

Key Responsibilities of Teachers:

- To support the policies and aims of the School and to exercise the highest standards of professionalism.
- To prepare lessons in accordance with the Schemes of Work promulgated by the Head of Subject.
- To teach in such a manner as to maintain the best academic standard, to support the individual needs of pupils and to encourage an enthusiasm for, and an interest in, the subject.
- To mark pupils' work on a regular basis, allocate grades and targets as agreed with the Head of Subject and to write reports by the set deadlines.
- To keep up to date with current educational developments and to attend any necessary courses as advised or instructed by the Head of Subject or Head of Faculty.
- To undertake, as directed, agreed supervisory tasks and to be a House Tutor, supporting activities within the house.
- To attend Staff Meetings, Staff briefings and Parents' meetings.
- To attend full School Assemblies and Year Group Assemblies as appropriate.
- To contribute to the general breadth and quality of pupils' experiences within the School by:
 - helping to provide opportunities for curriculum enhancement
 - contributing to sport and to the running of activities.

Line Manager for:-

Teachers of Subject day-to-day

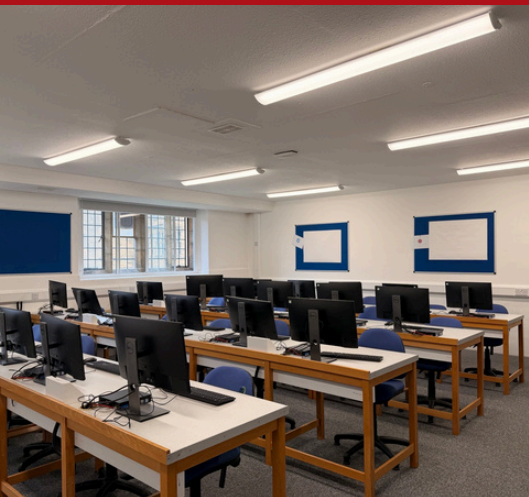
Professional review

Undertaken by the Head of Faculty

PERSONAL SPECIFICATION:

The person appointed will satisfy the following:

- Have a good degree in Computer Science, or a relevant subject
- Be a qualified teacher
- Be committed to sharing their enthusiasm for their subject with students of all ages and abilities
- Be willing to develop their own subject knowledge, notes and resources to enhance their teaching
- Have an up-to-date knowledge of the content and structure of the National Curriculum and of current developments within education
- Have, or willing to develop, an excellent teaching ability
- Be competent in the use of ICT both within the classroom and for administration
- Be empathetic to the aims and objectives of a Catholic Benedictine School
- Be medically fit and able to teach
- Be willing to undertake departmental administrative tasks as directed by the Head of Department
- Be well organised and adaptable, able to prioritise tasks and work effectively as part of a team
- Be able to establish good working relationships with the rest of the team and with students
- Be able to evaluate and improve performance
- Be able to satisfy all criteria and checks relating to suitability to work in a school environment
- Be able and willing to contribute fully to extra-curricular activities within the school and department
- Be willing to take on academic tutorial and pastoral responsibility



“Ampleforth is very much a community in its own right and even as a part time staff member, I feel included, involved and that my work here is valued. The College team are friendly and supportive and it is clear that everybody here is passionate about their role. The College is unlike anywhere I have ever worked before, no two days are ever the same, and I really look forward to coming to work.”

Emma Darbyshire-Mezzanotte, Database Project Executive



“It has been rewarding, both professionally and personally, to have worked for almost 20 years in a place with a clear sense of purpose, collegiality, and a profound respect for cultural diversity whilst maintaining traditions and values which give it its unique character.”

Francisca Garcia-Ortega, Head of Spanish



Conditions of Employment

Hours: Full time

Probationary period: 6 months

Salary: Depending on qualifications and experience. This position attracts the appropriate additional responsibility points.

Working Environment

Ampleforth is an enjoyable and stimulating place to work. Our staff body seeks to work to core values and codes of conduct developed from the Rule of St Benedict.

Benefits

- Group Personal Pension Scheme
- Affordable staff lodging (where available)
- Lunch during working hours (hot and cold choices)
- Discounted on-site Sports Centre membership
- Free car parking on-site
- E-Vehicle salary sacrifice scheme (pending)
- Cycle to work scheme
- 10% Staff discount at the Abbey Shop and Tearooms
- Bounty scheme for referral of new staff
- Employee assistance programme
- Death in Service Gratuity
- Fee remission (at Headmaster's discretion)

Staff Support & Welfare

Ampleforth takes the welfare, health and wellbeing of its staff seriously. Our beautiful grounds are well maintained and open to staff for walking and running. In addition to professional development, we endeavour to support all staff members to the very best of our ability. We operate family-friendly policies such as childcare voucher schemes, company maternity provisions (enhanced Statutory Maternity Pay) and flexible working opportunities. There is also an Employee Assistant Programme offering a free and confidential 24/7 support service. This service provides unlimited access to advice, information, coaching and counselling where appropriate. A Staff Chaplain is also available to offer advice and support.



Apply now

For more information or to discuss the role further, please contact the Human Resources department on **01439 766415** or employment@ampleforth.org.uk or John Devitt, Deputy Head Academic: Director of Studies on JOD@ampleforth.org.uk

The Trust is committed to a policy of equal opportunity and will take every possible step to ensure fair and equal treatment of all. All Trust policies and practices will support the commitment to equality of opportunity in respect of any recruitment, and selection process. No member of staff or applicant will be unfairly disadvantaged by the Trust policies or practices.

Safeguarding and Child protection at Ampleforth College

The St Laurence Education Trust is committed to safeguarding children and promoting the welfare of children and young people. They expect all staff and volunteers to share this commitment and will ensure that all recruitment and selection practices and procedures reflect this commitment.

All successful candidates will be subject to checks by the Disclosure and Barring Service (DBS) along with other relevant employment check. All applicants, (regardless of position) are requested to read the Safeguarding Policy as part of our commitment to safeguarding of children

All posts at Ampleforth are exempt from the Rehabilitation of Offenders Act 1974. We therefore require applicants to declare all convictions, cautions and bindovers, including those regarded as 'spent'.

All information provided will be treated as confidential.

Our Safeguarding Policy can be accessed via our website. Any offer of employment is made subject to a full range of checks and satisfactory references.

The Application Process

If you have enjoyed reading about life here in the Ampleforth valley, and would like to join the team, we encourage you to apply. Applications should be made via our application form.

Please visit [Ampleforth College- Join the team](#) to start your application.

If you have any questions about the application process, please contact the HR Department on **01439 766415** or email employment@ampleforth.org.uk.

The interview process will take place in school. Further details will be provided once the shortlist has been agreed.

Closing date for applications: Friday 17th April, midday

Interviews will take place week commencing: 20th April

How to reach us

BY PUBLIC TRANSPORT

York

Board the 31X bus towards Kirkbymoorside on Station Avenue. Exit bus at Ampleforth College and walk 0.2 miles to the College site.

Harrogate

Take the train from Harrogate station to York Station. Walk 280 yards to Station Avenue and board the 31X bus towards Kirkbymoorside. Exit bus at Ampleforth College and walk 0.2 miles to the College site.

Middlesborough

Take the train from Middlesborough station to York Station. Walk 280 yards to Station Avenue and board the 31X bus towards Kirkbymoorside. Exit bus at Ampleforth College and walk 0.2 miles to the College site.

BY CAR

Please use <https://what3words.com/couple.shoulders.autumn> or YO62 4EP for Sat Nav

York

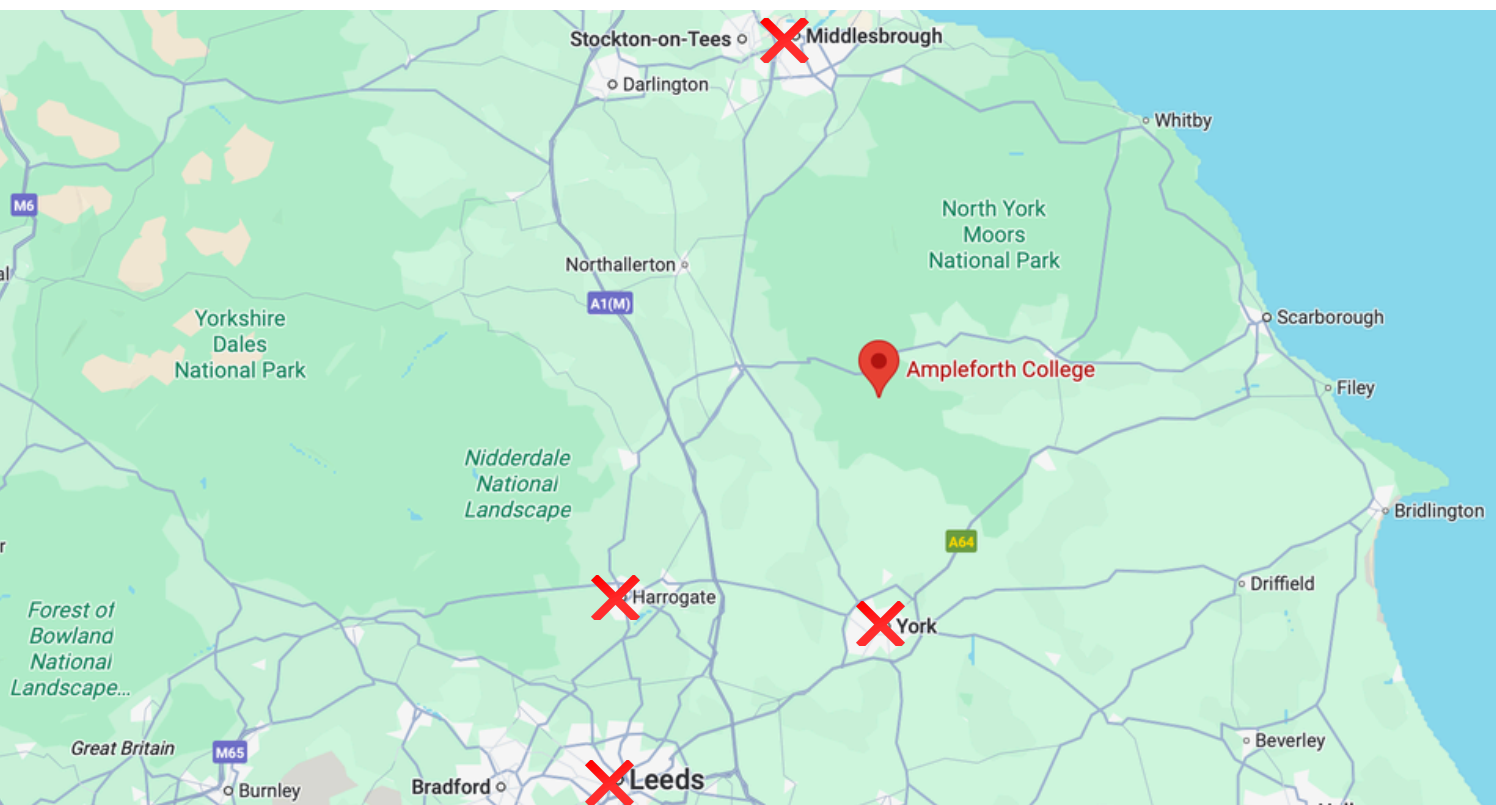
- Via B1363 through Sutton-on-the-Forest, Brandsby and Oswaldkirk – 21.9 miles
- Via A64 & B1257 through Stockton on the Forest, Welburn and Hovingham – 25.2 miles
- Via B1257 through Strensall, Terrington and Hovingham – 22.9 miles

Harrogate

- Via A170 through Ripley, Ripon and Thirsk – 36.1 miles
- Via A1(M) & A170 through Flaxby, Dishforth and Thirsk – 39.3 miles
- Via A6055 through Knaresborough, Helperby and Coxwold – 29.7 miles

Middlesborough

- Via A19 through Crathorne, Ingleby Arncliffe and Thirsk – 39.7 miles
- Via B1257 through Stokesley, Laskill and Helmsley – 32.9 miles
- Via A19 & A170 through Crathorne, Northallerton and Thirsk 43.8 miles





an Ampleforth education is
A Compass for Life



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ampleforthcollege.org.uk