



Teacher Of Physics

Appointment Brief

To start | September 2017

One of the top co-educational schools in the country



Physics at Caterham

The Physics Department at Caterham is one of the most active and successful departments in the School with well qualified and enthusiastic staff who bring their own exciting styles and charisma to their teaching. Our students genuinely enjoy their study and have an admirable thirst for knowledge. The Department has been awarded 6 Good Schools Guides Awards since 2010, and consistently is one of the best departments in the school in terms of value-added to student performance. Despite this level of success we are convinced we can do still better. We are looking for someone with a passion for Physics to share our vision and practice of dynamic teaching and learning and to further enhance our success. It is a testament to the success and productive environment within the department that over the past four years that all four junior teachers who have moved on to other UK schools have moved to Head of Physics positions at top independent schools.

All members of the department are encouraged to use the flexibility of our syllabus and approach to pursue their own passions and interests within the subject, from Junior Science through to IGCSE and A-Level. We aim to encourage an atmosphere of enthusiasm for the subject and debate about it, both amongst ourselves and with students.

In the First Year pupils are taught Science by one teacher for 5 periods a week. Physics is taught by specialist teachers to all students from the Second Year. In the First and Second Year pupils follow an

in-house programme that addresses key concepts and gives them as much hands-on practical experience as possible while embedding an understanding of scientific method.

We follow the Edexcel IGCSE specification from the start of the Third Year. All pupils follow the Triple Award Course until the end of the Fourth Year, when some pupils may opt for Double Award in the Fifth Year. The vast majority of students opt to take the Triple Award, with almost all achieving an A or A*. At A-Level we follow the well-regarded OCR Physics A syllabus. The number of A-Level students is increasing every year with over 60 starting the course and 52 committing to the 2 year linear A-level. Over the past few years we have prepared students excellently to move on to study Physics, Engineering or related courses at top universities, with 16 achieving offers at Oxford and Cambridge over the past four years.

IGCSE Physics Results Summer 2016

Passes at grades A* to B 100%

Passes at grades A* to A 94%

GCE (A-level) Physics Results Summer 2016

A2 Passes at grades A* to B 85%

A2 Passes at grades A* to A 70%

AS Passes at grades A to C 95%

AS Passes at grades A to B 79%



Physics at Caterham

For lower years our teaching programme is augmented by Science trips to places such as the Science Museum, Marwell Zoo and the Science Centre at Herstmonceux. In this way, all students are encouraged to engage in the subject in an active way. The student run Physical Sciences Society also regularly advertises and sources tickets for evening lectures in London.

The breadth of activity outside of the classroom is one of the most enjoyable aspects of the department, from an astronomy club which organises observations and events periodically through the year, to in-house electronics, aeronautics, rocketry, 'lego mindstorms' and practical problem solving clubs. Students and staff put on a series of challenging and stimulating lectures throughout the year. Attendance at these activities is high, with 60 or more pupils attending lectures. We have also recently hosted a symposium for local schools on Stellar Astrophysics and Nuclear Fusion to mark the solar eclipse. We run sessions to enable the most motivated students to stretch their knowledge beyond the syllabus, teaching Astronomy GCSE as a single year after-school course in the 4th year, and running courses on bridge design and special relativity for the Lower 6th.

The department is popular place for students and one in which staff and students alike enjoy spending time. It is well settled within the newest buildings on the school site providing us with 5 generously proportioned and fully equipped laboratories, one for each teacher and used only for Physics, a store room and a spacious prep room.

The department currently consists of five full-time and one part-time member of staff plus one full-time technician.



The Role

We are seeking a teacher to:

- ♦ Teach Physics from Second Year to Upper Sixth level
- ♦ Teach Science at First Year level as required
- ♦ Plan stimulating and informative lessons, in line with the departmental schemes of work
- ♦ Mark student work and tests regularly in line with departmental policy
- ♦ Contribute to oral and written assessment, reports and references for pupils
- ♦ Lead Physics help sessions as part of a departmental rota one lunchtime per week
- ♦ Educate the student body more broadly, drawing on specialist skills, knowledge and experience; for example by giving occasional lectures, running a physics related club or assisting with Oxbridge preparation
- ♦ Undertake and check demonstrations and class experiments before using them in lessons
- ♦ Participate in relevant meetings and INSET
- ♦ Develop and improve one's own skills and knowledge, within the School's performance management process by engaging in lesson observations, seeking pupil feedback, and evaluating performance together with respective line managers in academic, pastoral and co-curricular areas.

- ♦ Undertake other tasks as reasonably required by the School

The ideal candidate will:

- ♦ Possess a relevant degree, preferably in Physics or Engineering from a top university
- ♦ Be an excellent communicator of physics
- ♦ Have excellent subject knowledge and a passion for their specialist area
- ♦ Be well organised with a track record of high achievement
- ♦ Have a genuine interest in children's education and be passionate about guiding them to success
- ♦ Be a reflective practitioner with a desire to improve
- ♦ Have some teaching or tutoring experience

This post would suit someone new to the profession or an experienced teacher.

QTS is not essential as we offer an in-house training programme which can lead to QTS.

The person appointed will be expected to play a full and positive part in the life of the School. Therefore, the ability, and a willingness to become involved in, and contribute to other co-curricular activities will be essential.



The School

One of the top co-educational schools in the country

Caterham School is one of the leading co-educational HMC schools in the country. We are committed to providing an environment in which all pupils are challenged to be the best they can be and one in which pastoral care and well-being underpin academic, co-curricular and sporting excellence. The majority of our pupils are day pupils but we are also a thriving boarding community, which enriches the educational opportunity and experience for all.

We believe in providing an education for life for all Caterhamians and we seek to ensure that the learning experience at our school blends the best of tradition with the exciting opportunities provided by new technology. Learning how to learn is a key facet of a Caterham education and is in our view an essential skill for life in the twenty-first century. We believe that a truly excellent school is about more than academic achievement alone: it is also about developing a passion for learning, a capacity for independent and critical thinking, self-awareness and resilience, self-confidence without arrogance and genuine interests that extend beyond the confines of the classroom.

At Caterham School we focus on developing the whole person, aiming to ensure that each pupil leaves here ready for the challenges of life at university and beyond and understanding their responsibilities towards others. We want our pupils to leave Caterham well equipped to engage positively with a rapidly changing world as accomplished problem solvers and innovators,

confident in their ability to lead and with a clear appreciation of and respect for the views and potential of others. In so doing we remain true to our founding Christian principles and values.

All round the campus you will see signs of our confidence in the future with our modern Sports Centre and all-weather pitch, recently refurbished boarding accommodation, new assembly hall and theatre, and state of the art IT facilities. In 2008 we built a new North Wing to provide improved facilities for Sixth Form pupils and new facilities for the Health Centre. In 2013 we added two more science labs to bring the total to fifteen. All this situated on 200 acres in the beautiful, wooded Harestone Valley.

Caterham School enjoys an enviable reputation for producing highly successful individual and team performances in a wide range of sports.

Excellence is pursued wholeheartedly (with many pupils achieving county, national and international representative honours), but the aim is also to cater for every pupil, at his or her own level of ability and enthusiasm.

The co-curricular programme is extensive and covers a wide range of activities including, but not limited to: music, drama, dance, Duke of Edinburgh's Award, languages, circus club, science, outdoor pursuits, go-karting, kit car club, chess and Warhammer.



Latest News

CATERHAM'S TEEN TECH NATIONAL WIN!

Caterham School's Teen Tech team have been announced as national winners at a special ceremony at Buckingham Palace. The three-strong team were chosen as overall national winners for their design and prototype of 'SensoSafe' – a bike light that also detects vehicles approaching the cyclist from behind, alerting them to the potential danger. The young engineers were presented their award by HRH the Duke of York.

Teen Tech is a national competition that invites entries from across the UK in a multitude of different STEM disciplines. The event recorded its highest ever number of entries this year with an astonishing 1400 groups putting forward their innovative ideas.

NEW CENTRE FOR THE PERFORMING ARTS

Caterham School's new Centre for Performing Arts was officially opened by film and theatre actor and director Simon Callow CBE. The ceremony was opened by pupil musicians Hero Shimoji and Anastasia Kedrina who were followed by speeches from the Headmaster Ceri Jones and senior drama pupils.

OXFORD AND CAMBRIDGE PLACES SECURED

13 Sixth Form pupils from Caterham School received offers from Oxford and Cambridge Universities (Oxbridge) in the last year, taking to 49 the total Caterham pupils studying at the world-leading universities in the last three years alone. This year's results from Caterham saw the school

achieve an application-to-offer ratio of 57%, three times the national average

APPLE ACCOLADE

Caterham School has once again been recognised as a leading school for its application of technology in teaching and learning. The School is one of only a handful of schools in the UK to be formally accredited as an Apple Distinguished School.

The School has established a best practise programme to integrate the use of iPads by all students alongside traditional teaching methods. Since the launch of the programme, the School has received interest and visitors from across the globe, keen to learn from Caterham's experience and success.

BRITISH ASTRONAUT VISITS CATERHAM SCHOOL

Britain's First Astronaut, Helen Sharman OBE, visited Caterham School to inspire young scientists and share her experiences of space. Helen was the British person to go into space when she stayed on the MIR space station and remains the fifth youngest person to travel to space.

In the first of two packed-out talks at Caterham School, Helen addressed pupils who were full of questions about life in space. Helen's young audience was gripped as she explained complex science in an accessible and inspiring way; she also peppered her talk with anecdotes about life in space including how astronauts eat dinner, go to bed on the ceiling and even use a special space toilet!

For more news from Caterham School visit www.caterhamschool.co.uk



The Application Process



A completed application form and covering letter, should be addressed to Mr Ceri Jones, Headmaster, and emailed to: HR@caterhamschool.co.uk

If posting documents please send to:

The Head of HR,
Caterham School,
Harestone Valley Road,
Caterham, Surrey,
CR3 6YA

This appointment is for **1 September 2017**.

The closing date for applications is **5 March 2017**.

The School reserves the right to appoint at any stage of the recruitment process; early applications are encouraged.

Caterham School is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment. All offers of employment are subject to an enhanced DBS check.

www.caterhamschool.co.uk

INSPIRING EDUCATION FOR LIFE

Benefits

We pride ourselves on the best support and care for our academic and bursarial staff – a school is only as strong as those working within it. As such, our staff enjoy a range of benefits and enjoy the strong sense of community that pervades the School.

Continuous Professional Development

All staff have access to generous professional development training as part of the School's performance management process. The focus at Caterham School is on encouraging and supporting individuals to continue to grow their skills to provide the finest teaching and learning for our students.

Child Care Voucher Scheme

A tax saving scheme for parents administered by Faircare. For employed staff, no qualifying length of service. The provider must be OFSTED registered. Further details available from the HR Department.

Counselling and Legal Advice Service

A free, confidential 24 hour telephone service available 365 days per year.

Fee Remission

Discount available on school fees. Please contact the HR department for full terms and conditions. Fees may also be paid via a salary sacrifice arrangement.

Pension Scheme

Teachers Pension Agency Scheme.
<https://www.teacherspensions.co.uk/>

Subsidised Sports Centre Membership

Subsidised Membership to Caterham School's Sports Centre with extensive fitness suite, 25 metre indoor pool, sports hall and programme of fitness classes. £50 per year for staff member, £50 for partner and £25 for each child.

Car Parking

Free on campus parking. Staff members must provide their name and registration number to the Bursary. Any permanent change of vehicle must be reported.

Free meals whilst on duty

Includes breakfast, lunch and dinner during term time, and where available during the school holidays. Also extends to hot beverages and newspapers.

Subsidised 'Flu vaccinations

Provided on school premises on an annual basis.

Discount in School Shop

A 5 per cent discount on purchases.





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