

## Welcome to the Science Faculty at Hamilton College!



Thank you for your interest in this position; we very much look forward to receiving your application. Hamilton is a college with a caring ethos, committed to ensuring excellence in all of our students within a warm and supportive environment. Here at Hamilton, you will find a diverse learning community where unwavering dedication from all of our staff will ensure that students will receive personalised learning, care and support in order to achieve their very best. The successful candidate will be joining our college as it approaches the next phase of its journey and we warmly welcome applications from creative, forward thinking and enthusiastic colleagues who will make a valuable contribution to our team. Please also read this information **in conjunction with our Job Description and Person Specification Information.**

The Science Faculty is housed in its own, purpose built block which affords us the space for **eight modern science laboratories**. Each laboratory contains state of the art technology including **interactive whiteboards and digital visualizers, as well as data loggers, linear air trackers and microscopes with video camera attachments** to name but a few! In addition, we are proud to say that our Science faculty has its own Twitter account and YouTube site, both of which support students' learning and engagement with Science.

### Our Ethos:

The ethos of the team is a positive one, with a strong focus on improving the progress of all students at the school; we are working together to improve our outcomes and are looking creatively at the courses that we offer at Key Stage 4. To this end, planning together and sharing resources is very important to us and is allowing all teachers to become more confident in teaching outside their own specialism.

We firmly believe that Science is a life skill and we seek to promote this through carefully constructed learning in both key stages, as well as through our extra-curricular provision which includes our annual Science Week, a week-long celebration of Science, including ZooLab (our fantastic visiting 'zoo'). We are also involved in projects at Leicester University, Pembroke College Cambridge and others to ensure that our students receive a rich experience.

Our dedicated team consists of 11 teachers, a dedicated faculty HLTA, TA and two technicians who provide fantastic support. We work together, often coming together in the large shared Prep Room space to share ideas informally and to support each other. We also have a faculty office which doubles as a working space when needed.

### **Key Stage 3:**

Developing an interest in Science is incredibly important for our young people, particularly in this modern world in which we all live.

When students arrive at Hamilton in Yr7, they begin their Science careers by undertaking an Introduction to Secondary Science programme which aims to equip them for the demands of the science curriculum at Key Stage 3. They are introduced to important aspects of laboratory safety, as well as given an introduction into the key skills of a young scientist.

Once their Introduction to Secondary Science is complete students follow the National Curriculum within a suite of specialist labs, using the very latest technology. Students cover all three sciences, where, throughout the year our young scientists work to develop their scientific knowledge and conceptual understanding.

### **Key Stage 4:**

The course followed at Hamilton is **Combined Science: Trilogy (Double award)**. This is a double award and is equivalent to two GCSEs. The qualification also allows for progression on to further study of science at A-Level and on other Level 3 courses. Students studying Combined Science Trilogy cover the three disciplines; Biology, Physics and Chemistry. Some students study **Entry level Science**.



## **TEACHER OF SCIENCE**

### **WITH OPTION FOR TLR OR LEAD PRACTITIONER**

#### **JOB DESCRIPTION**

Be passionate about teaching ensuring that every student can achieve their very best.

- An ability to teach Science at Key Stage 3 and 4, and be aware of requirements of the National Curriculum.
- Have a good mathematical subject knowledge and be able to plan engaging and inspiring lessons. Use a variety of teaching styles that engage students and be willing to undertake VAK, interactive and investigative tasks with pupils and incorporate AFL.
- To recognise student differences and special needs and use appropriate strategies to engage and motivate to allow learning to take place productively and safely.
- Be confident in the use of ICT for teaching and learning.
- The flexibility to work across all student ability levels as required.
- To work to a high standard, embrace new ideas and initiatives, work collaboratively, and share good practice with colleagues.
- To be involved in the provision of after school activities.
- To present a confident, professional and enthusiastic persona to pupils.
- Work with a form group and endeavour to enhance and promote pupils development and wellbeing.
- Undertake training and development appropriate to your area of work, and in liaison with the head of department.

- It is desired that the successful candidate has knowledge and understanding in using an interactive whiteboard, although full training will be provided.
- Any other duties commensurate with the post as instructed by the Principal.

## **Teaching and Learning Responsibility**

- An additional TLR point may be awarded for the right candidate, based on discussion during interview.

## **Lead Practitioner**

There is an opportunity for a suitable applicant to contribute towards the quality of provision, teaching and learning across the school:

- Develop teaching and learning initiatives and strategies throughout the faculty and school which raise the teaching practice of all members of staff.
- Work with other leaders within school in developing, implementing and evaluating policies and practice that lead to school improvement.
- Undertake quality assurance.
- Coach and mentor colleagues, and contribute to their professional development.
- Disseminate materials and advise on practice, research and CPD provision.
- Analyse national, local and school data, research and inspection findings to inform curriculum area policies and practice and report regularly on progress and plans.
- Use local and national data and other information to provide: a comparative baseline for evaluating students' progress and attainment; a means of judging the effectiveness of their teaching; a basis for improving teaching and learning.
- Take a lead role to improve the effectiveness of assessment practice in the school to evaluate the effectiveness of teaching and learning.
- Research and evaluate innovative curriculum practices and draw on research outcomes and other sources of external evidence to inform own practice and that of colleagues.

## Teacher of Science MPS

### Person Specification

Attributes	Essential	Desirable	How Identified
<b>Relevant Experience</b>	<ul style="list-style-type: none"> <li>Teaching Science to students of all abilities at KS3 and KS4, to GCSE standard (this could be on teaching practice)</li> <li>Excellent attendance and punctuality record</li> <li>Evidence of students achieving improved results, and good teaching practice</li> <li>Good assessment procedures in place</li> <li>Willingly organises extra-curricular activities</li> </ul> <p><b>If applying for Lead Practitioner:</b></p> <ul style="list-style-type: none"> <li>Vision for high quality science teaching and learning and evidence of strong classroom practice.</li> <li>Leading role within current department in developing curriculum, schemes of work, assessment practice or other major developments.</li> <li>Proven ability to raise standards in classrooms other than their own.</li> <li>Experience of giving feedback to colleagues about professional performance and of coaching and mentoring.</li> </ul>	<ul style="list-style-type: none"> <li>Creative use of resources to improve standards</li> </ul> <p><b>If applying for Lead Practitioner:</b></p> <ul style="list-style-type: none"> <li>Evidence of developing the classroom practice of others</li> <li>Evidence of impact demonstrated in development work within department.</li> </ul>	<p>Letter of Application</p> <p>Application Form</p>
<b>Education and Training</b>	<ul style="list-style-type: none"> <li>QTS with a Science based degree</li> <li>Evidence of INSET within the areas of good practice in Science</li> </ul>	<ul style="list-style-type: none"> <li>Evidence of further study</li> </ul>	<p>As above plus:</p> <p>Interview</p>

	<ul style="list-style-type: none"> <li>▪ Be able to plan and prepare three part lessons with a variety of teaching styles that engages students</li> </ul>		
<b>Other Skills and Knowledge</b>	<ul style="list-style-type: none"> <li>▪ Devotion to building a subject area with a high quality of teaching and learning, which constantly improves</li> <li>▪ An enthusiastic and creative person to create and maintain a culture of success; manage change and growth and develop staff</li> <li>▪ An ambitious teacher who would be willing to develop this post as a foundation to further promotion</li> </ul> <p><b>If applying for Lead Practitioner:</b></p> <ul style="list-style-type: none"> <li>▪ Excellent interpersonal and communication skills.</li> <li>▪ Able to lead and foster positive and professional relationships.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Evidence of challenging all students.</li> <li>▪ Engender enthusiasm and problem solving skills in all students</li> <li>▪ Knowledge of new innovations in Science teaching</li> <li>▪ Be confident and competent using ICT and use of ICT within Science to raise standards and enhance teaching styles</li> <li>▪ Evidence of impact of work on developing a collegiate approach within current department.</li> </ul>	As above