

## **JOB DESCRIPTION**

**POST TITLE:** Teacher of Engineering with the ability to teach Engineering, Product Design and/or Electronics

**POST RESPONSIBLE TO:** Lead for Engineering and Design (Full and part time considered)

**SALARY:** Main pay/upper pay scale

**INTERVIEW DATE:** TBC

**START DATE:** ASAP

### **JOB PURPOSE**

To perform all the professional duties of a teacher under the direction of the Lead Teacher for Engineering and Assistant Principal. Teacher of Engineering with the ability to teach Product Design/electronics.

To be an outstanding classroom practitioner who consistently delivers the highest standards of teaching and embraces our vision of an integrated curriculum that ensures our students achieve the highest outcomes in Product Design and Engineering.

### **DUTIES AND RESPONSIBILITIES**

#### **Principal Responsibilities**

- To ensure that the vision and values of WMG Academy Trust are evident in every aspect of the role;
- To lead by example and model the highest professional standards to staff, students, parents and partners in all aspects of the role;
- Working with other colleagues, play an active role in delivering WMG Academy Trust priorities, culture and vision;
- To contribute to the development plan for the department and the WMG Academy Trust; • To play an active role in the marketing and recruitment of students, parental reviews and other events at the relevant WMG Academy for Young Engineers;
- To meet regularly with your Line Manager and be accountable for your own Performance Management;
- To attend meetings as required;
- To ensure effective use of resources to the benefit of all staff and students; • To comply with health and safety rules and legislation, ensuring the safety of students and staff at all times;
- To be involved in the enrichment programme for the WMG Academy Trust; • To maintain discipline in accordance with the policies and procedures for the relevant WMG Academy and to encourage good practice with regard to punctuality, attendance, behaviour, standards of work and independent learning;
- To comply with all policies and procedures of the WMG Academy Trust.

## **Curriculum**

- To work with the subject lead to develop and implement an innovative curriculum and relevant programmes of study;
- To engage with employers to develop learner employability skills, ensuring work related learning experiences are at the core of the WMG Academy Trust curriculum;

## **Teaching and Learning**

- To ensure a high quality learning experience for students that engages and excites them;
- To promote the highest standards of teaching and learning, share best practice with other curriculum areas and develop the Academy model for outstanding learning;
- To be committed to continue improvement in teaching practice to ensure students achieve outstanding outcomes;
- To set high expectations of students' behaviour through good classroom discipline, adherence to Academy policy, focused teaching and productive relationships;
- To demonstrate outstanding teaching across the full ability range from Years 10 to 13, delivering Product Design and contributing to the delivery of Engineering when appropriate;
  - To provide a variety of learning materials and resources for use in educational activities and to identify and select different resources and methods to meet students' varying needs;
  - To establish a purposeful and safe learning environment conducive to learning;
  - To ensure learning is relevant for all students according to their educational needs;
  - To maintain and develop an excellent knowledge and understanding of the subject area and related pedagogy, including the contribution that Product Design can make to cross-curricular learning;
- To make effective use of an appropriate range of observation, assessment, monitoring and recording strategies;
- To develop schemes of work and lesson plans in conjunction with your Line Manager and with other departments as relevant;
- To ensure that learning objectives are shared with students and are achieved during sessions;
- To design opportunities for students to develop their literacy, numeracy, ICT and thinking and learning skills appropriate within their phase and context;
- To set appropriate work for classes when absent;
- To ensure that sequence of learning, including lesson plans, are in place that will enable access to the highest grades by all students in all courses taught in Product Design;
- To keep up to date with developments in the curriculum area, teaching methods and resources and make relevant changes to schemes of work and lesson plans as appropriate;
- To hold positive values and attitudes and adopt high standards of behaviour in your professional role.

## **Assessment, Recording and Reporting:**

- To assess the achievement of learning objectives within sessions and reflect this in own teaching practice and the learning of students;
- To evaluate performance of student's within your lessons, providing feedback for parents, students, staff, SLT;

- To assess student work regularly with timely feedback, setting targets for improvement;
- To ensure that learners meet and exceed the targets they are set and are aware of what they need to do to improve;
- To ensure that the Assessment, Reporting and Recording policy is adhered to for learners within your lessons;
- To assess in line with Awarding Body requirements and ensure that it is timely.

**Pastoral duties:**

- To be an active Pastoral tutor working with an identified cohort of learners across all years.
- To follow the pastoral system policies and procedures as identified by the Assistant Principal;
- To deliver effective pastoral sessions this will include PSHE, Citizenship, CIAG and pastoral reviews;
- To conduct individual reviews with your identified cohort developing an Individual Education Plan for each of them;
- To act as the main point of contact with parents for the identified cohort of learners and perform reviews with them.

**All our academic staff will be measured against the teachers' standards.**

**Any other duties commensurate with the level of this post and as directed by the Associate Principal and CEO.**

### Person Specification for Teacher of Design Technology

The person specification focuses on the knowledge, skills, experience and qualifications required to undertake the role effectively:

<b>REQUIREMENTS</b> The post holder must be able to demonstrate:	ESSENTIAL (E) or DESIRABLE (D) REQUIREMENTS
<b>QUALIFICATIONS</b>	
Honours degree or equivalent in relevant subject	D
Post graduate or further relevant professional studies	D
Qualified teacher status	E
<b>EXPERIENCE</b>	
Proven record of success as a teacher in education or within an industrial environment	D
Experience of working with a range of partners both in and outside the world of education	D
Understanding of outstanding teaching, learning and assessment strategies	E
Understanding of behaviour for learning	E
Relevant worked based professional experience	D
<b>KNOWLEDGE AND SKILLS</b>	
Excellent subject knowledge	E
Knowledge and understanding of current curriculum developments	D
Ability to analyse and interpret student performance data and set targets	E
Ability to create an ethos which enables all students to achieve their potential	E
To be able to work effectively as a team	E
Excellent literacy, numeracy and ICT skills	E
An ability to inspire students in Y10 to Y13	E
<b>PERSONAL ATTRIBUTES</b>	
To work under pressure and meet deadlines	E
Confidentiality and discretion	E
Ability to organise, plan and prioritise	E

Excellent communication skills	E
A commitment to safeguarding to learners within the academy	E
Enthusiasm, optimism and energy	E

All offers are subject to clearance of references and enhanced DBS checks

## **THE WMG ACADEMIES FOR YOUNG ENGINEERS**

*“We have some of the best companies and supply chains in our local area, and they all desperately need new talent and skills to help them grow. That is why the WMG Academy for Young Engineers is so important”*

*The late Professor Lord Bhattacharyya, Chairman, WMG*

### **WMG Academy for Young Engineers Trust**

The WMG Academy for Young Engineers Multi Academy Trust was formed in March 2015. Following the successful opening of the Coventry Academy in September 2014, the WMG Academy Trust opened its second Academy in September 2016 in North Solihull.

Formed between a partnership of the University of Warwick (led by the Warwick Manufacturing Group – WMG) and with the support of national, regional and local businesses such as Jaguar Land Rover, National Grid, Arup and Balfour Beatty, the Trust is committed to providing a better way of learning for the Engineers of the future.

The Trust is made up of members from industry including the EEF and the Local Authorities Chamber of Commerce and the University of Warwick who have led the development of the WMG Academies and oversee their running from a strategic perspective.

Both Academies focus on engineering and digital and information communication technologies, and can cater for approximately 500 students each aged between 14 – 19 years of age. Currently in its third year, the Solihull Academy has an impressive 330 students on roll and is on track to be full in two years’ time.

As well as a core curriculum at Key Stage 4, which includes GCSEs in the core subjects maths, science, English and Engineering Manufacture, students can select from options which include a modern foreign language, a humanities subject and free option subjects. In addition, all Key Stage 4 can students follow additional Level 2 Cambridge Nationals course in Engineering worth a further 2 GCSEs equivalent.

Students at Key Stage 5 can follow a flexible pathway bespoke to their needs. Students can choose to take just STEM A-Levels or combine 3 traditional A-Levels with the Level 3 OCR Technical in Engineering worth the equivalent of 1 A-Level. Alternatively, many students at post 16 can study a Level 3 BTEC Engineering qualification at Certificate Diploma or Extended Diploma level. Further BTEC qualifications are available in Art, ICT and Science and students can mix qualifications to suit an individual career pathway. The ethos of both academies is ‘business-like, business-led’.

## **WMG Academy for Young Engineers Coventry**

Opened in September 2014 by Ratan Tata, the Coventry Academy has over 400 students on roll in its second year. Located close to the Westwood area in Canley and the University of Warwick, the Coventry Academy was designed with a large Engineering Hall filled with over £600,000 worth of specialist equipment. Three dedicated CAD areas allow industry standard software to be used by students in their Engineering projects.

The Coventry Academy is proud of its very first OFSTED report where it was rated Good.

Students at the Coventry Academy come from a wide catchment area which includes Solihull in the north through to Kenilworth, Warwick and Rugby in the south.

The Academy follows an 8.30am – 4.30pm (Tuesday – Thursday) with enrichment opportunities offered to students that include football, F1 in schools, Green Power and Engineering clubs. Students also have access to resources at Warwick University. On Mondays and Fridays students leave at 3.20pm.

## **WMG Academy for Young Engineers Solihull**

Opened in September 2016 the Solihull Academy boasts over £2M of specialist equipment and ICT. Developed along a similar open plan design to Coventry, the Solihull Academy occupies a slightly bigger footprint. The Academy is thriving on successful recruitment and has four year groups, 10 through to 13.

Dedicated ICT facilities include 3 CAD suites and student PC access in all teaching rooms giving unrivalled access to industry standard software. These facilities allow innovative teaching pedagogy through digital technologies. A large Engineering Hall, complimented by 'Make and Do' areas above, allows a flexible group-work approach to learning.

The Academy occupies land adjacent to the Chelmsley Wood shopping Centre, North Solihull and draws from a wide catchment of East Birmingham, Solihull and North Warwickshire. The Solihull Academy follows the template of the 8.30am – 4.30pm working day used in the Coventry Academy (Tuesday – Thursday) and has the additional flexibility of incorporating some enrichment into the Academy day due to its close proximity to North Solihull Sports Centre and having its own multi-use games area and activity hall. The Solihull Academy received its first Ofsted inspection in February 2019 and was rated Good in all categories.

## **Our Vision**

We will ensure that our students have raised aspirations that will provide the motivational drive to succeed. Strong employer and further and higher education links, as well as a professional ethos and culture, will ensure the students will be in demand from employers.

Our unique status of working very closely with some of the biggest employers in the region means that we have shaped the curriculum from day one to ensure we produce students with a professional ethos and culture that is in high demand in today's working world.

The focus of the Engineering curriculum is a series of projects – real business-focused, practical problems and challenges that reflect fully the world of work. Employers provide mentors to help our students get a full understanding of life in engineering. This 'better way of learning' means that education will be exciting for our students. We will give them an experience of real value; one that will lead to a diverse range of positive progression pathways for every single student.

Team working will be the norm and students will work together to develop the skills that employers value. We are committed to developing team working, problem solving, creativity, leadership, communication, resilience and an ability to respond to change. As staff, it is our role to model those skills and behaviours to our learners in everything that we do.

## **The Role**

The WMG Academy Trust is looking for a Design Technology Teacher who has excellent teaching skills. The successful candidate will inspire and enthuse students with their passion, ensuring outstanding outcomes in their subject area.

You will demonstrate and demand the highest standards of delivery and you will be fully committed to raising attainment to enable all students to achieve outstanding success.

Reporting to the Lead Teacher of Engineering, you will be responsible for the planning and delivery of outstanding lessons of this specialist curriculum and will be expected on occasions to share your expertise with the engineering department to develop their employer commissions. You will provide timely feedback for students on their work to ensure they are to achieve and realise their targets. All teachers will be pastoral tutors working closely with an identified cohort of students.

This is a unique opportunity to be involved in a new and exciting Academy; designing and leading an innovative approach to learning and ensuring that students achieve the highest outcomes and opportunities.