Job Title: Robotics, PLC & Automation Lecturer

Reports to: Director of Engineering & Technology

Directorate: Engineering & Technology

Job Ref:

JOB PURPOSE

The post-holder will hold a central role in what is a very diverse and growing engineering department. The directorate offers a range of Electrical/Electronic & Mechanical/Manufacturing courses, alongside very successful apprenticeship programmes for leading national companies across the UK. The successful applicant is expected to have the knowledge and the skills to make a successful contribution to all robotics, PLC’s and automation activities as well as being involved in direction and growth for this specialist area. The post holder will be based within James Watt Campus however may be required to work/attend meetings within one of the other main Campuses in Birmingham.

The post-holder will work with the Director of Engineering and the Business Development team to help work on the strategic plan for growth in robotics, PLC and automation which is at the forefront of engineering manufacture. The department has grown significantly with key focus areas around Food and Drink Maintenance Engineering, Automotive and Rail. The post-holder will also have a strong focus around overall robotics co-ordination and advancements in the area.

Due to the specialist nature of the position, the following levels of understanding would be sought after:

- The understanding and operation of process controllers within an engineered system, such as programming techniques, signal transmission and variables etc.
- To understand how to prepare for automation maintenance activities, such as knowing the engineering information required, equipment required and also documentation etc.
- Be able to carry out the aforementioned maintenance such as program maintenance, sensor calibration and how to record the jobs completed etc.
- The understanding and implementation of robot operation and safety & handling
- The understanding and implementation of critical elements of operation & the maintenance/repair of Robots, including: programming, modifications, calibration,
DUTIES AND RESPONSIBILITIES

- To co-ordinate all robotics activities in conjunction with the Departmental Manager of the area ensuring that health and safety is paramount at all times.

- To develop a commercial offer in robotics with business development and the director of engineering and technology to support growth in automation and robotics.

- To attend external training events and meetings to ensure that BMet stay at the forefront of automation and robotics.

- To co-ordinate and lead on the automation rooms within the engineering section with support from the technicians to ensure that everything is fully stocked and all companies we are working with are value for money.

- Teaching up to 875 hours annually on subject areas including Robotics, PLC and Automation.

- To lead teaching and development on curriculum delivery and assessment materials to support the delivery of programmes mentioned above to meet the needs of individual employers, appropriate with each individual qualification, skills and experience where required. This including includes the writing of assessments and ensuring the correct use of paperwork where required, and to collaborate with colleagues on course development and curriculum changes, specifically around the new apprenticeship standards and new courses that have been developed.

- To seek ways of improving performance by reflecting on teaching design and delivery by obtaining and analysing peer observation feedback, student feedback, and external examiner feedback to maintain high quality learning and teaching.

- To act as module leader as required.

- To undertake course administration and development as required by the course tutors, departmental managers and director, including marking of assignments, and the completing of student assessments in line with awarding organisation guidelines. The post holder will also be required work on other activities as directed by the departmental manager and director in relation to the post.

- To cover for absent colleagues as required.

- To negotiate learning action plans with students and have pastoral responsibility for groups of students and to deal with problems e.g. students’ academic progress and personal issues (e.g. responding to needs of students with learning difficulties through referral to the appropriate support departments within the college.

- To actively participate in the college performance development scheme and attend staff development activities related to the personal action plan arising from performance development feedback.

- To represent the College at external events when required.

- To observe the Colleges Equal Opportunity Policy.
• To work on enrolment, advice and guidance, open days and other such events as required.

• To be responsive to the needs of learners and employers and to be flexible in their approach to a very demanding position.

GENERAL INFORMATION

1. The salary will be subject to deductions in respect of contributions in accordance with Teachers (Superannuation) Acts and the National Insurance Acts.

2. The successful applicant may be required to undertake a medical check, which will be arranged by the college via the Occupational Health Contractor.

3. The successful applicant will be required to complete and have cleared a Criminal Record Bureau, Disclosure Form – Enhanced, and satisfactory references.

4. The appointment will be in accordance with the Recruitment and Selection Policy and Procedures approved by the Corporation.

5. Canvassing, direct or indirect, will lead to disqualification.

Further Education is an ever-changing service and all staff are expected to participate Constructively in College activities and to adopt a flexible approach to their work.

This job description will be reviewed annually during the Performance Management process and will be varied in the light of the business needs of the college.

CAR PARKING FACILITIES ARE NOT GUARANTEED

Birmingham Metropolitan College is an inner city college with a very large number of students from a variety of different social and ethnic backgrounds. This places great demands on our hard working staff but also provides a great deal of job satisfaction to applicants who are committed to this type of College.
# PERSON SPECIFICATION

## QUALIFICATIONS

### Essential
- Successful candidates will have or be willing to undertake relevant Teaching Qualifications such as PGCE/DTTLs/PTTLS. √
- To hold an apprenticeship / be qualified to level 4 or have an equivalent qualification in an engineering discipline √
- Have an understanding of study programmes and apprenticeship frameworks/standards and to also have an understanding of the OFSTED framework. √

## EXPERIENCE

### Essential
- Relevant teaching experience in Engineering/Robotics/PLC/Automation or equivalent suitable industrial experience that is relevant. √

### Desirable
- Experience of working in an Engineering/Robotics/PLC/Automation environment. √
- Experience of curriculum development and design including writing practical workshops, assessments and completing IV where required. √
- Experience in the development and delivery of e-learning material, such as Moodle or OneDrive. √

## SKILLS & ABILITY

### Essential
- Willingness to work as part of a team and contribute to the development of new curriculum to meet college requirements. √
- A willingness to be involved in other departmental duties where required. √

### Desirable
- Confidence in incorporating Information Learning Technology into the curriculum. √
- Ability to prepare high quality schemes of work and lesson plans, in-line with college quality processes and procedures. √

## PERSON QUALITIES

### Essential
- The ability to motivate oneself and work closely in a team when required, taking leadership and responsibilities where necessary. √
- The flexibility to cope with the new changing environment and methods of delivery. √
- The ability to be committed to a wide area of work and different types of students from diverse backgrounds. √
- Be able to communicate effectively within teams and other cross curriculum departments within the college. √