

Job Description

Job Title: TRAINEE / LEAD PRACTITIONER Computing and AI

Accountable to: Director of Engineering & Mathematics

Core Purpose:

The Lead Practitioner in Computing and AI will support the Director of Engineering & Mathematics in developing outstanding teaching and learning practice in Computing and AI at AUEA with our Engineering and Mathematics Faculty. This inaugural role will focus on ensuring that AUEA accelerates to become a leading school for computing and AI in the midlands. The role will support the development of our current and future curricular in the areas of computer science, IT and AI to ensure that a curriculum that is exciting and engaging and delivered in partnership with Aston University, Aston University Mathematics School and our significant industry partners so that our young people are motivated to strive for excellence.

Key Responsibilities:

Responsibility for developing the curriculum of the future for Computing and AI at AUEA

- To be responsible for the evaluation of existing subjects of KS3 digital skills and GCSE computing
- To work with Principal and Senior leaders on the development and implementation of future pathways in the areas of computing and AI, in line with national changes at Post 16 and 'power skills' (digital literacies)
- To contribute to the ongoing development of appropriate syllabuses, materials and schemes of work.
- To attend national conferences and be part of key boards in respect of computing and AI

Responsibility for raising the standards of all the students you teach in the subject of IT, Computing and AI:

- To be responsible for the teaching of relevant teaching material within IT, Computing and AI.
- To contribute to the ongoing development of appropriate syllabuses, materials and schemes of work.
- To be responsible for managing the resources in the teaching rooms to which you are deployed.
- To be a tutor, when assigned, and to be responsible for carrying out the duties as set down in the generic tutor job description.
- To be responsible for carrying out a fair share of supervisory duties and cover for absent colleagues.
- To be responsible for developing IT, Computing and AI Subject Area and AUEA policy on matters such as lesson preparation, schemes of work, marking, record keeping and homework, and quality assurance.
- To be responsible for organising a disciplined working environment in which students can achieve their maximum potential.

Responsibility for educational progress for all your students in the subject of IT, Computing and AI:

- To be responsible for monitoring students' progress in your IT, Computing and AI. groups through academic tracking and data analysis.
- To be responsible for reporting to and liaising with the Director of Engineering & Mathematics, teaching/support staff, University staff and students, industrial partners, and parents/carers.
- To ensure a culture and ethos of challenge and support in your teaching where all students can achieve success and become engaged in their own learning.
- To demonstrate and articulate high expectations and set stretching targets in IT, Computing and AI.

Support staff teaching in IT, Computing and AI to consistently and effectively plan lessons and sequences of lessons, to meet students' individual learning needs by:

- Disseminating examples of effective planning practice
- Taking steps to ensure that teachers are aware of the needs of inclusion of all pupils and groups and make provision for this in their planning
- Taking steps to ensure that feedback from lesson observation, work scrutiny and analysis of assessment data is appropriately reflected in teachers' planning
- Establishing strategic planning, including short, medium and long term plans for the development and resourcing of the subject
- Taking steps to ensure teachers are clear about the teaching of outcomes in lessons, understand the sequence of teaching and learning in the subject area and communicate this to students
- Observing colleagues teaching (through subject monitoring) and provide evaluative feedback on the effectiveness of their teaching strategies to bring about further improvement
- Identifying and promoting innovative and effective strategies within D&T to meet the needs of all students
- Working with staff in D&T to develop a range of innovative teaching and learning resources

Additional Lead Practitioner responsibilities within the Engineering and Mathematics Faculty:

- Leading the application AI within teaching across the school, both in respect of positive promotion in teaching as well as in reducing staff work load
- Be a member of, Advise and support the Extended Leadership of the school in the risks, responsibilities and opportunities in respect of AI in schools.
- Support the leadership in bid writing for grants and other opportunities in relation to AI and computing.
- Facilitate learning visits, and extra-curricular opportunities for students in relation to computing and AI.
- Maintain expert knowledge of teaching and learning and disseminate this to other teachers
- Understand and promote links between the subject and the wider curriculum

Additional Lead Practitioner responsibilities across the UTC

- Support the Head of UTC and AP Teaching and Learning to lead the whole school teaching and learning objectives inline with academy development plan and Trust priorities
- Be a member of the trusts extended leadership team.
- Defining intervention strategies to address issues for development that are identified
- Undertake and develop the quality assurance of teaching and learning across the academy in conjunction with the wider Teaching and Learning Team
- Support and lead CPD training for staff in priority areas
- Produce data for governors, external bodies including Ofsted
- Contribute to the UTC's Self Evaluation process and reports. Creating a climate, which enables staff to develop, challenge and support each other, resulting in positive growth
- Mentoring and coaching staff to develop confidence and maintain positive attitudes

Additional responsibilities:

- Communicating effectively with professional integrity within and beyond the school community
- To attend appropriate INSET to enhance subject knowledge, awareness of curriculum developments, classroom management skills etc, and whenever appropriate, share new knowledge and experiences with colleagues.
- Attend Trust and Governor meetings as required with the role.
- To contribute to the enrichment curriculum
- To undertake any other duties or work at the request of the Executive Principal /Principal and consummate with responsibility level.