



## Candidate Information

<b>Position:</b>	Engineering Director (Momentum One Zero)
<b>School/Department:</b>	School of Electronics, Electrical Engineering and Computer Science
<b>Reference:</b>	24/111933
<b>Closing Date:</b>	Monday 10 June 2024
<b>Salary:</b>	£65,998 - £81,375 per annum.
<b>Anticipated Interview Date:</b>	Tuesday 25 June 2024
<b>Duration:</b>	Permanent

### JOB PURPOSE:

As a member of the Momentum One Zero (M1.0) Senior Management Team, the Engineering Director will provide strategic direction to the engineering team, working closely with the Academic and Executive Directors, and drive operational excellence. They will play a key role in bridging the gap between research excellence and the commercialisation of world leading research, supporting all M1.0 innovation activities. In particular, they will assist in developing digital eco-systems in across priority growth sectors for Northern Ireland as required under the Belfast Region City Deal. These will take the form of Hubs of Impact, bringing together multiple companies and M1.0 Engineers to drive impactful innovation. The Engineering Director will be comfortable providing leadership to a multi-disciplinary team of professional software and hardware engineers working across a broad spectrum of leading-edge technologies.

### MAJOR DUTIES:

1. Plan, monitor and control the allocation of engineering resource to the various priority research areas, in support of innovation and in partnership with the commercial team.
2. Responsible for development, management and co-ordination of a comprehensive and integrated approach to Engineering R&D support for M1.0's strategic R&D plans, especially to facilitate large multi-disciplinary projects within our Hubs of Impact.
3. Manage and drive the exploitation of M1.0's intellectual property portfolio, in partnership with the commercial team.
4. Promote open innovation and drive technical engagement with M1.0's industry partners, in partnership with the commercial team.
5. Prepare, update and regularly review M1.0's annual operational plans, including engineering resource finances, and perform target setting in collaboration with the senior management team.
6. Maximise the performance of the engineering team by articulating vision, setting standards, coaching staff and planning staff development opportunities.
7. Act as the change management authority on major projects dealing with all out-of-tolerance deviations from the plan-of-record and initiating appropriate remedial action.
8. Act as the risk management authority on major projects formalising the identification, allocation, assessment, monitoring and mitigation of project-based risks.
9. Promote the international reputation of M1.0 through presentations, attendance at trade-shows and visiting major companies and research centres worldwide.
10. Support inward investment initiatives by the regional development agency (Invest NI) and the Department for Business and Trade (DBT) by participation in strategic events and activities.
11. Undertake management and administrative duties as required to ensure project goals are completed on time and within budget.
12. Undertake any other duties that may reasonably be requested by management.

### ESSENTIAL CRITERIA:

1. 2:1 Honours Degree, or equivalent, in Electrical/Electronic Engineering, Computer Science or related discipline.
2. Proven track record in building, leading, and motivating highly performing technical teams.
3. Substantial track record of technical project management and successful delivery of multi-million pound projects in technically challenging areas using development teams.

4. Substantial expertise in commercial software and/or hardware product development across a broad range of platforms and technologies.
5. Experience of working in or with high technology start-ups.
6. Proven track record of interacting with and positively influencing key decision makers in industry and/or government agencies.
7. A general understanding of the wider ICT industry and future challenges, and a vision for how these challenges may be met through digital innovation investments in the Belfast Region City Deal.
8. Ability to communicate complex information clearly in both written and spoken English.
9. Evidence of strong presentation skills and ability to prepare clear and concise presentation materials.
10. Ability to interact constructively with others including senior academic staff and industrial / government collaborators.
11. A self-starter with the proven initiative to take ownership of a work package and advance it in a disciplined manner, from design to execution.
12. A consummate team player who is open-minded and is prepared to work closely with other members of a large multidisciplinary research and development team.
13. Prepared and able to work closely with industrial collaborators.
14. Stable, hard-working personality with a strong drive to complete projects on time and to deliver the promised outcomes.
15. Willingness to attend meetings and conferences nationally and internationally as requested, i.e. must be prepared to travel.

**DESIRABLE CRITERIA:**

1. A Ph.D. in a relevant area.
2. Broad knowledge of artificial intelligence, or edge/cloud computing, or cyber security, or wireless communications.
3. Knowledge of, or experience in, life and health sciences, or agri-food, or defence/space or security or finance sectors.
4. Track record of securing high quality R&D funding from nationally and internationally competitive sources, including industry or investors.
5. Substantial track record of successful exploitation and knowledge transfer in an academic or research institute environment.
6. Evidence of strong documentation skills evidenced by the production of high-quality technical material within academia/industry/government.