

**Staff Grade**

Acoustic Consultant

**Main function**

An Acoustic Consultant is responsible for supporting the wider Acoustic Team through assistance with noise monitoring, data processing, computational noise modelling, acoustic design work report writing and assistance with business development. A broad interest in all areas of the field of acoustics will be essential so that an efficient level of support can be provided to ongoing projects.

You will be expected to manage your own smaller projects, with support and supervision of from senior members of staff and be working to improve your technical and admin skill in order to run larger more complicated projects.

**Qualifications & Experience Requirements**

Typically required IOA Diploma in Acoustics and Noise Control or first degree with equivalent level of acoustic content and at least two years specific relevant experience in the field. Can show a good understanding of basic environmental and/or architectural acoustic assessments and has evidence of undertaking acoustic assessments and reporting within the field.

A Consultant would typically be expected to have a valid CSCS card and Rail Access Authorisation, or undertake such training as and when required as part of the role.

A valid UK or EU driving licence.

**Memberships**

Associate Membership of the Institute of Acoustics (AMIOA) would be desirable although sponsorship of membership would be provided by RSK on successful completion of the probation period (through agreement with Managing Director).

**Fundamental Skills Required:**

- Good understanding of project and site health and safety
- Good interpersonal and presentation skills,
- Good oral and written skills.
- Good practical skills,
- Good time management skills,
- Ability to remain calm, polite, helpful and be able to focus under stress .
- Numerate, as noise and vibration work will require regular use of logarithms and other mathematical formulae,
- Well organised thorough, tidy and methodical approach.
- Computer literate and be able to quickly adapt to using bespoke software packages (SoundPlan, CadnaA, CATT and AutoCAD),

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- Flexible and self motivating, but with the ability to work as part of a team.
  - Ability to work unsupervised using judgement, initiative and taking responsibility.
  - Experience of using noise and vibration monitoring equipment (Building and Environmental),
  - Comfortable with using Excel to undertake data processing tasks and acoustic calculations,
  - An understanding of project finances and project financial control,
  - Able to undertake environmental noise measurement and measurements of specific sources, such as machinery.
  - Able to undertake noise/vibration surveys for planning assessments and review on the fly where any monitors would be setup,
  - An understanding of project finances and project financial control,
  - Possess an ability to adapt current knowledge to a range of situations, and to identify when and where to seek help from other sources when the limit of knowledge is reached,

**Technical**

A Consultant would typically be expected to also be able to undertake 50% of the below:

***Architectural Acoustics***

- Calculations to determine for the airborne sound insulation of building facades for common residential and medium scale commercial buildings.
- Calculations to determine the reverberation time within spaces.
- Assessment of the sound insulation of internal floors and walls.
- A knowledge of the acoustic performance of common building element construction methods using conventional and lightweight materials.
- Undertake sound insulation tests in common situations such as residential dwellings and schools.

***Mechanical Services***

- Calculations of noise from a wide range of mechanical services plant including air handling, cooling and emergency generation plant to internal spaces and in the atmosphere, with the ability to adapt to difficult site conditions and unfamiliar equipment in unusual environments.
- Calculations of noise breakout from plant rooms to external locations and how this can be mitigated where there are small exceedances.

***Environmental Acoustics***

- Undertake noise assessment in line with the AVO Guidance, BS 8233 and ProPG, and prepare technical report
- Undertake monitoring, modelling and assessment of an industrial facility in line with BS 4142, and prepare technical report
- Undertake assessments and noise monitoring in line with guidance in BS 5228. With a detailed level of understanding of construction activities, equipment and on-times for different types of project.
- Prepare noise and vibration monitoring methodologies for a range of assessment types

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***Dynamics***

- Comfortable at conducting practical tasks associated with monitoring equipment installation (geophones, accelerometers, strain gauges, tilt sensors and/or acoustic emission equipment);
- General understanding of dynamics monitoring and asset protection;
- Ability to assist at the project scoping stage, under the supervision of an experienced consultant / colleague;

**Line Manager Responsibility**

Consultant grade staff will report to the Team Leader (or nominated deputy) and will also be expected to take instructions from Project Managers for project-related work and to take appropriate guidance from other staff.

**Additional Related Duties and Responsibilities:**

In addition to the typical duties and responsibilities listed in the Appendix, the job holder is required to perform other duties assigned by their line manager from time to time, for example:

## **Appendix A**

### **Typical Key Duties and Responsibilities of Acoustics Staff**

#### **General:**

- Dealing with client and internal enquiries in a courteous & prompt manner;
- Assistance in the production of tenders, proposals and bids for intended works;
- Prepare method statements and H&S risk assessments for site work with support from more senior staff;
- Organise onsite works – equipment hire, travel, hotels, site access etc;
- Undertake noise/vibration monitoring as per project requirement or – this is likely to involve day, night and potentially weekend work, and travel throughout the UK. Where work is undertaken outside of standard hours lieu time will be awarded, and in certain cases (through liaison with Team Leader) over time may be awarded;
- Download noise and vibration meter data and provide analysis for projects;
- Undertake computational noise modeling and manual calculations (Building and Environmental Acoustics) where project require with support from the Team Leader;
- Become aware of and familiar with the required British Standards (BS4142, BS5228, BS8233, ETSU-97, BB93 etc) for the intended work;
- Communicate in good time with team and internal client any delays or problems with meeting deadlines;
- Ensure that you maintain client confidentiality is maintained throughout project and be aware of any potentially sensitive issues;
- Maintain an accurate written and photographic record of the works & of any conversations with client;
- Ensure that information is correctly processed - checks works & corrects mistakes promptly;
- Puts personal energy & commitment into completing a piece of work & doing it to the best ability;
- Looks for ways to meet & exceed challenging performance standards & targets, setting personal goals at or beyond business expectations;
- Puts in extra effort when required to meet targets/deadlines.
- Manage projects with diligence, good communication, technically accurate, financial awareness and within RSKA guidelines and procedures