Template	Last Amendment Date	Country
Role Profile	October 2018	UK

Role Profile Document

Role Title	Project Science Lead – Timing	**Location**	Chelmsford, UK
Reporting To	Technical Authority	**Division**	Technology
Contact	Ole.Kock@teledyne-e2v.com	**Grade**	

Overview of Role:

The Project Science Lead will be a key member of the growing Quantum Technology team at Teledyne e2v to provide support and expertise on the various activities of Quantum Sensor development. This work will be focused on the precision timing aspect of our Quantum development portfolio.

A significant part of the role will involve internal and external liaison between Teledyne e2v and other stakeholders within the Quantum science community. These will include other functions within Teledyne e2v, government scientists, national timing institutions (e.g. NPL), university physicists and blue-chip corporate engineering teams, as well as working with, and managing partners and subcontractors.

Main Accountabilities

- Technical Support - Provide the scientific and technical lead to:
  - Project and Technical Manager.
  - Project Team Members.
  - Partners and Subcontractors.
  - Customers.
- Technical Assessment
  - Take a leading role in the development of precision timing technology at Teledyne e2v.
  - Take ownership of key subsystems, from requirements to design, manufacture and testing, including where necessary working with partners and subcontractors.
  - Produce and review subsystem specifications and advise on feasibility of proposals.
  - Leverage cutting edge innovation into our timing products.
  - Identify opportunities for improvement of Teledyne e2v's Quantum technology understanding and implement improvement opportunities.
- Product Control
  - To ensure that the appropriate equipment, processes and documentation exists for the correct manufacturing of the product.
- Risk Management
  - To determine and manage the technical risk on a project and to implement mitigation activities as appropriate.
- Product verification - Ensure that the requirements of the customer are met:

- Generate and own appropriate test plans.
- Statements of Work.
- Ensure Teledyne e2v's QA procedures are met.

Essential Experience/Competencies

- PhD level or equivalent qualification in relevant field
- Practical laboratory experience in precision timing
- Experimental skills in laser physics, atomic physics, vapour cells and electronics
- Good leadership capabilities
- Project risk management techniques
- Persuasive communication and negotiation skills
- Problem solving
- Adaptability to changing situation and continuous process improvement

Desired Experience/Competencies

- Experience as a post-doctoral or equivalent researcher
- Motivation to further the development of quantum technologies based systems to commercial products
- Experience on atomic clocks, vapour cell magnetometers and applications
- Experience in the development and delivery of Quantum sensors
- Experience in the management of complex stakeholder programmes
- Experience bringing low TRL developments to products
- Experience in vapour cells