

# Job Description: Senior Engineer

## Background

---

nuron is an innovative young company developing a suite of optical fibre monitoring technologies for utilities. The first of these will transform the wastewater industry into one that is monitored and managed, delivering real operational and economic benefits while protecting the environment in which we live. Wastewater networks remain almost completely unmanaged and there is a shortage of scalable monitoring technologies.

The technology also provides the ability to roll out dense urban fibre networks faster, more cost effectively and with significantly less disruption than conventional civils. This will result in the sewers becoming a vital enabler for true fibre to the premise, 5G and smart cities of the future delivering widespread social and economic benefits.

Over the past 8 years, nuron has successfully proven the concept of fibre optic monitoring of the operational conditions in sewers. Following the successful completion of our customer pilot within a UK water company's live sewer network in 2020, we are now preparing to scale-up the technology, as part of a large commercial roll-out and develop solutions for other utilities

nuron was founded by the ex-COO of Geo Networks Limited (sold to Zayo in 2014 for £186m). It is led by a team of experienced directors from business and engineering backgrounds, all with track-records of growing successful, profitable technology-driven companies.

We plan for nuron to grow considerably over the coming years with a business plan rolling-out 100s of Kms of our system each year globally. This role offers an immediate opportunity for the right candidate to play a key role in an early-stage business, whilst providing a suite of development opportunities.

## The Role

---

nuron is looking for people who are responsible, creative and spirited in everything they do, to help grow our engineering capabilities in order to deliver reliable monitoring solutions for utilities globally.

The successful candidate will be practical, versatile with a 'can-do' attitude and a love of technology. They will have a passion for engineering & help nuron evolve its processes to deliver commercially viable, field ready and scalable technologies and solutions.

This is a fantastic opportunity to deliver significant value to nuron and grow with us.

- Lead an engineering team to develop key parts of the nuron technology and delivers well documented, field ready products and services that meet the business requirements.
- Lead the delivery of novel design solutions for our Engineering Services clients who want to enhance the value of their existing utility assets.
- Provide leadership and coaching within our growing engineering department to develop junior staff and foster a culture of continuous professional development and growth; and world class safety, customer service and technical excellence.
- Programme manage multi-disciplinary development programmes, ensuring projects are delivered on time and to budget.
- Support the continuous improvement of our technology, in collaboration with our Field Service team to increase efficiencies and reduce costs.
- Source and manage relationships with suitable suppliers for materials, components and sub and final assembly along with tooling, jigs and fixtures.
- Source and manage manufacturing suppliers and implement the necessary quality assurance processes.
- Continuously improve the Engineering function by supporting the Operations Manager with the development of relevant standards and processes.

## Requirements

---

### Essential

- Approximately 10 years' experience in engineering or technical disciplines as well as a proven track record in project delivery.
- Strong technical engineering background and experience.
- Proficient with 3D Modelling and the use of CAD systems including, but not limited to, amending, controlling and QA of technical drawings.
- Strong technical background with the ability to communicate design intent easily to stakeholders at all levels.
- Management experience.
- Self-reliance and the ability to work as part of a small team while setting an example of leadership.
- Ability to drive, and hold others to account in, a culture of continuous improvement while balancing creativity with the much-needed process, structure and control.
- Problem-solving in complex systems.
- Pragmatic "self-starter" comfortable dealing with uncertainty.
- Competence with using hand tools and general machining tools.
- Well-developed communication skills (verbal and written).
- Strong eye for detail.
- Good Microsoft Office suite skills.

### Desirable but not essential

- Multidisciplinary background or experience in and engineering or technical related field
- Experience with Autodesk would be preferable.
- Optical fibre or telecoms experience
- Valid driver's license
- Experience producing benchtop prototypes and proving ideas in a fast-paced environment
- Experience in mass-production or value engineering design or management

**Reporting to:** Operations Manager

**Location:** Based at the nuron Engineering hub in Sheffield with occasional travel to other supplier, customer and partner sites across the UK and globally.

**Hours:** 37.5hrs per week

**Salary:** Competitive

If interested, please email your CV to: [tom.garwood@nuron.tech](mailto:tom.garwood@nuron.tech)