



Design Engineer

The Company

Physical Digital is a high-tech engineering company based in Guildford, Surrey. We provide specialist 3D optical measurement services to a wide range of high-value clients.

We have a diverse team of experts across the fields of metrology, design, and reverse engineering. Operating across a wide range of industries including aerospace, automotive, energy, art, marine and medical, we offer a diverse and rewarding engineering environment in which to work.

Physical Digital is part of the Trescal group which is headquartered in Paris. Starting in 1999, Trescal is an international group with over 3,850 employees across 28 countries with a 15% growth rate per annum...Would you like to be a part of our success?

The Role

We are looking for a talented and enthusiastic Design Engineer with a methodical approach who will take a primary role in a range of technical projects, who can strengthen our Design Team undertaking design and reverse engineering across a wide range of market sectors. This is a demanding but exciting role for the appropriately skilled person. A wide range of on-the-job training will be provided.

Our commitment to our team:

- Deliver exciting and varied role opportunities.
- Recognise, reward, and develop expertise.
- Support and mentoring for professional registration.
- Provide a rewarding and ethical work environment.

Responsibilities will include but are not limited to:

- Design tasks ranging from reverse engineering of components through to new designs to meet the client needs.
- Designing complex fixtures for robust measurement of components.
- Undertake all aspects of the design lifecycle from requirements capture, concept design, detail design and production of engineering drawings.
- Responsible for commercial and project management activity quoting and winning work, then delivering the project to time and cost. Taking day to day responsibility for the project management of client projects.
- Ability to work alone using initiative to solve complex problems and work as part of a highly motivated team.
- Direct contact with clients throughout projects.
- Input into technical meetings and discussions. Be comfortable chairing technical meetings, preparing and delivering design reviews and producing technical reports.



- Utilising and implementing measurement good practice both for internal applications and client-based projects.
- A flexible approach to the demands of the business.

Requirements:

A good understanding of the disciplines listed below will be required:

- A degree or HND/HNC in an engineering discipline although candidates with other academic qualifications combined with relevant experience will also be considered.
- Experience in design lifecycle from concept generation through to detail design
- Proficient in 3D CAD, preferably Siemens NX and/or Geomagic, but also others considered.
- Proficient in the use of Microsoft software (Microsoft Office suite, especially Excel)
- Report writing and communication skills.
- Experience in producing high standard engineering drawings to client specifications.
- Knowledge of GD&T.

Experience in or knowledge of the following would be advantageous:

- Advanced freeform surfacing
- Analytical skills (hand calculations and/or FEA)
- 3D scanning and design for 3D printing
- Exposure to automotive and aerospace industry
- Experience of composite tooling design
- Working towards professional registration