



<https://newtoncolmore.com/job/zemax-expert-opto-mechanical-design/>

Zemax Expert – Opto-mechanical Design

Description

Newton Colmore is seeking an experienced Opto-mechanical Engineer to join our client in rural Cambridgeshire

In this new role you will be at the heart of complex, multidisciplinary projects, designing and developing optical systems from concept and simulation through to prototyping, tolerancing, and design for manufacture. You will collaborate closely with physicists, electronic and mechanical engineers, software developers, and human factors specialists, ensuring the product exceeds expectations from a technological and usability standpoint.

Using Zemax will be central to this role. You will use it to take initial optical designs through full tolerancing and thermal analyses, and be expected to work at an advanced level. Proficiency in other tools such as CODE-V, OSLO or FRED is also valued.

What the role involves.

Your core focus will be optical and opto-mechanical system design, but the role is deliberately broad. You'll contribute to systems architecture, lead technical workstreams, and engage directly with suppliers and other stakeholders.

Skills & experience needed.

- Zemax / OpticStudio (advanced)
- Tolerancing & thermal analysis
- Opto-mechanical system design
- Optical simulation & modelling
- Prototyping & testing
- Design for manufacture
- CODE-V, OSLO or FRED
- Experience in regulated sectors

What is on offer.

Tailored salaries with a full suite of benefits

High employer pension contribution + monetary bonuses

Private medical insurance for employees & dependants

Free lunch and all-day refreshments

25 days holiday + life insurance (6× salary)

Enhanced maternity & paternity leave

EV leasing & Cycle to Work scheme

Hiring organization

Newton Colmore Consulting Ltd

Employment Type

Full-time

Beginning of employment

ASAP

Duration of employment

Permanent

Industry

Industrial Engineering

Job Location

Cambridge

Working Hours

Monday to Friday

Date posted

21st July 2026

Valid through

24.08.2026

Apply below or email directly:

matthew.lowdon@newtoncolmore.com

Relocation package available

If you would like to find out more, make an application now and a member of our team will be in touch with more details.