



<https://newtoncolmore.com/job/experimental-physicist-instrument-design/>

Experimental Physicist – Instrument Design

Description

Newton Colmore is searching for an experimental physicist who enjoys solving highly complex problems, to join our client in Cambridge.

This is a rare chance to apply deep scientific expertise to problems that genuinely matter — keeping people safe, ranging from airport scanner technology through to objection detection systems. You will use your physics insight and research skills to explore the art of the possible: designing investigations, inventing new approaches, and seeing your ideas realised through rapid prototyping and development. The role spans invention, analysis, computational modelling, and prototype design through to manufacturing transfer.

What makes this role different

No two projects are the same. You'll work with and lead expert multi-disciplinary teams of scientists and engineers, tackling cutting-edge challenges across a uniquely broad range of physics domains.

Here are some of the physics domains you will be working across.

- Quantum technologies
- Sensing, PNT, computing & communications
- Electromagnetics
- Propagation, plasmas & interaction with electronics
- Semiconductor physics
- Junction behaviour, logic, thermal & sensing
- Optics & photonics
- Lasers, imaging, fibre optics & fluorescence
- Sonar & acoustics
- Ultrasound & acoustic communications
- Algorithms & AI

About you

You will need to have a track record of academic excellence and hold a relevant postgraduate degree (or equivalent professional experience). Beyond that, the client is genuinely open on experience level and domain knowledge, with a focus on finding great people who love to do great work.

What is on offer.

- Employee-owned trust — flat structure, real autonomy
- High employer pension + monetary bonuses
- Private medical insurance for you and your family
- 25 days holiday + bank holidays
- Enhanced family-friendly leave
- EV leasing & Cycle to Work scheme
- On-site gym + sports & social clubs

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

Base Salary

£ 50000 - £ 80000

Date posted

20th July 2026

Valid through

17.08.2026

Apply below or email directly:

matthew.lowdon@newtoncolmore.com

- Theatre & local sports facility discounts

Candidates must be eligible for UK security clearance.