



Scientific Software Engineer (code SSD24A)

Cambridge Environmental Research Consultants ([CERC](#)) is recruiting. We are looking for a software engineer to join our scientific software development team.

CERC develops the world leading Atmospheric Dispersion Modelling System ([ADMS](#)) family of models, which are used across many countries to calculate air pollutant concentrations in the vicinity of traffic, industry and other emissions sources. We also work on diverse consultancy and research projects relating to both toxic air pollutants and greenhouse gases, for a wide range of clients including government, industry and academia. CERC also provides operational cloud-based air quality forecasting and alert services for parts of the UK (London and South-East England, Manchester and York), Latvia and Malaysia. The company is based in central Cambridge and employs around 25 staff, approximately half of whom work within the development team.

The role and its requirements in more detail are:

- *The role:* Your work will typically involve the development of CERC's software products including the ADMS suite of models. CERC's scientific software products are primarily developed in Fortran but other languages such as R and Python are also used. You will undertake a wide range of software development tasks as part of a team, including design and implementation new features and model enhancements, testing and validation of the model and the creation of user documentation. The work will also involve giving presentations at scientific meetings.
- *Our requirements:* You will have a strong background in physical science (e.g. maths, physics, chemistry, meteorology, engineering) at graduate level or higher. You will enjoy coding and have experience of coding mathematical programs in Fortran, Python, MATLAB or similar. You will need to be able to take an intellectually rigorous approach to solving scientific problems and keep in mind the practical needs of users.

Applicants will be required to work in a well-organised and conscientious way, with attention to detail, and be able to meet challenging deadlines. The ability to communicate effectively in written and spoken English is also necessary. Although in recent years the large majority of client interaction has been online, the roles may involve some travel in the UK and overseas.

CERC encourages and funds appropriate professional membership, usually with the Institute of Air Quality Management / Institution of Environmental Sciences. We offer opportunities for all staff to attend events such as webinars and conferences. We provide formal training through attendance of CERC's training courses, and additional training when appropriate to your role.

Your salary is likely to be in the range £29,000 to £38,000, depending on your qualifications/skills and experience, and will be reviewed annually. You will be entitled to 25 days' holiday per year, in addition to public holidays. In order to make sure that you and the position are a good match, you will initially be employed on a three-month probationary period. The post is initially full time, for two years, but may be made permanent. The successful candidate will typically be expected to work at least 4 days a week at CERC's offices in central Cambridge, with up to 1 day a week from home by arrangement.

Please e-mail your CV, with a covering letter explaining your suitability for the role described above, to Winnie Piotrowski at jobs@cerc.co.uk (no agencies please). When emailing, please be clear about the role you are applying for, quoting the code SSD24A. The closing date is 15th November 2024. We will invite selected candidates for interview within 2-3 weeks of the closing date. We do not sponsor applications for the right to work in the UK.