

Transvac comprises teams of dedicated people; experts in Oil & Gas, Energy, Chemical, Steel, Mining, Carbon Capture and related markets. We draw on our extensive technical knowledge and intellectual property to provide the know-how and support to solve some of the world's most challenging problems. Our people make the critical difference to customers by providing unique approaches to problem solving. Why don't you join some of the world's finest scientific and technical minds and help us make tomorrow work today?

List of key responsibilities:

- Undertake mechanical engineering activities as required for studies, projects and consultancy.
- Collaborate as part of the mechanical engineering team.
- Ensure safe and robust value engineered mechanical design for all products and process packages

List of activities

- Perform pressure vessel design evaluation to PD5500, ASME VIII Div 1, EN13445 and TEMA.
- Conduct pipe stress engineering of piping systems as per ASME B31.3 and EN13480 code.
- Perform evaluation of nozzle loads or vessels stress utilizing WRC 107/297 and PD5500 Annex G.
- Perform detailed stress analysis using 'Design by Analysis' approach and produce report using FEA with AutoDesk NASTRAN software and ASME VIII-2 part 5.
- Develop engineering computations and evaluations.
- Conduct complex engineering tasks along with key engineering work appropriately and efficiently.
- Present comprehensive mechanical design calculations and documentation to illustrate safe and robust mechanical design of all products and process packages.
- Coordinate design of pipe supports, and skid frames as needed.
- Interact frequently with various engineering disciplines and departments.
- Guide technically CAD designer and engineers.
- Perform as advisory facility to senior management staff on mechanical engineering pertinent matters.
- Support the Mechanical Design Assurance Manager.

Role requirements:

- Accredited mechanical engineering degree, ideally MEng/ MSc, alternatively BEng/ BSc or Chartered Engineer status with a sound understanding of engineering principles.
- Proven post-graduate work experience, in a mechanical static equipment and process package development role would be preferred. Minimum 5 years relevant experience, 10+ years preferable.
- Capable of 3D modelling & 2D drawing with CAD software such as Solid Edge, Inventor or SolidWorks.
- Capable of Drafting and Geometric Dimensioning & Tolerancing.
- Capable of Finite Element Analysis using Elastic and fatigue analysis approach using ASME VIII-2 pt5.
- Experience in producing design calculations using CAESAR II, PVElite, Finglow & Mathcad.
- Experience with relevant products, Process Equipment and package design and industry knowledge (Oil & Gas, Petrochemical, Power...)
- Attention to detail and the ability to build good relationships

Vessel, Piping and Process Equipment Stress Engineer

- Innovative mind, and focused on deadlines and targets
- Good interpersonal skills
- Understanding of basic manufacturing processes
- Exposure to a broad range of construction materials
- Able to use MS office, Mathcad 15 or Prime software

Working Hours

- Normal working hours are from 9.00am to 5.30pm Monday to Thursday, 9.00am to 5.00pm on Fridays.
- A Flexible Working Scheme is in place. Our offices are open between 7am and 6pm and core hours are 9.30am – 3.30pm.

Holidays

- 33 Days Total (including 8 statutory). Additional leave is awarded for long service in 5-year increments.

Other Benefits

- Sick Pay scheme
- Bonus Scheme (after 6 months employment)
- Healthcare Scheme (after 6 months employment)
- Retirement Benefits Scheme (after 6 months employment)

This is a full-time permanent position, which offers a competitive starting salary and benefits, along with good prospects for promotion. Transvac is an equal opportunities Employer.

Apply in writing to Jenny Lucas – HR@transvac.co.uk or Jennylucas@transvac.co.uk