



Edwards Vacuum Inc.

www.edwardsvacuum.com

Job Title: Senior Cryogenics Technologist

Location: Chelmsford, MA

Manager's Job Title: Core Technology Manager

<https://career5.successfactors.eu/sfcareer/jobreqcareer?jobId=41878&company=atlascopcoP>

Job Description:

The Senior Cryogenics Technologist in her/his role will drive innovative ideas & thinking into Edwards cryopumping and cryocooling product offerings. S/he will be extremely well connected with various Edwards sister companies (Leybold, Ulvac Cryogenics...) as well as to customers, suppliers, and academia. S/he will be expected to leverage these connections to execute innovative and robust technology roadmaps for the product lines.

As part of the Core Technology group s/he will build and execute on a credible portfolio of ideas aligned with the business strategy that will transition to the New Product Introduction (NPI) group for subsequent launch. Additionally, the individual will serve as a design authority for cryopumps, refrigerators, compressors, sensors, and new technologies into development, and will often serve as the final arbiter when decisions on quality and regulatory compliance are at stake. While the individual will be expected to be self-directed and highly motivated, s/he will interface with all levels and functions in the organization and must develop strong working relationships with cross-functional colleagues.

Requirements:

- Minimum MS in one of Mechanical Engineering or Physics; PhD highly desirable
- 15+ years design experience in cryogenics and/or vacuum systems
- 5+ years of advanced structural and/or fluids simulation in ANSYS or equivalent
- Working familiarity with ProE / Solidworks Modeling for subassembly and system design
- Experience with developing specifications and identifying critical parameters for core components such as seals, heat exchangers, motors, valves, oil separators, etc.
- Experience in material selection to achieve specialized functions such as low friction, sealing, and extreme temperatures
- Experience in Design for Six Sigma and/or comfort with statistical methods such as hypothesis testing, DOE, and SPC
- Strong problem solving skills
- Intellectual curiosity for vacuum and/or refrigeration systems
- Track record of having implemented new technology in products which were commercialized
- Excellent verbal and written communication skills
- Demonstrated ability to work in a team environment

Main Responsibilities:

- Project leadership on companywide projects requiring cross organizational teams. Manages the validation of new technologies and their integration into the Edwards' product portfolio. Works toward agreed-upon long range goals.
- Recognized as the internal authority/highest level of expertise in the discipline and related fields and is sought after as such.
- Applies advanced concepts and contributes to advancing company products and processes to achieve organizational objectives in a creative and effective manner.
- Has significant latitude in the choice of methods, procedures, and evaluation criteria to resolve technical and business issues along with implementation of recommendations.
- Role is typically the principal spokesperson for the organization, project, or program.
- Serves as a technical coach to the development team on technology solutions and design issues

Job Scope:

- ✓ This role sits within Edwards Vacuum, the CTIP Product company in Chelmsford which is part of the newly formed Semi Chamber Solutions Division within Atlas Copco's Vacuum Technique business area.
- ✓ It provides a complete range of Equipment and value-added services for customers in a range of applications & processes, depending on the market.
- ✓ The customers vary from very large global accounts to small diffuse customers.
- ✓ The division provides products under the Edwards brands.