Performance and Test Engineer

About QuEST

Established in 1997, QuEST is a leading engineering services firm providing product development and engineering solutions to major global companies. QuEST’s expertise ranges from concept designing to drafting and modeling, to analysis, to product realization solutions in the following domains: aerospace, civil structures, energy, industrial products, oil & gas, and transportation. QuEST partners with a host of Fortune 500 companies to provide better, faster and more cost-effective solutions to its customers. Over 1500 engineers across the US, UK, Italy, Germany, Spain, France, Japan and India make our team technically competent and truly global.

Job Details:

QuEST is seeking high energy engineers to support our growing Engine Performance and Test organization. You will receive training in the specific tools, processes and work instructions during the first few weeks of employment. You will work in our East Hartford, Connecticut Engineering Center.

You will interface with many engineering disciplines to achieve engine system-level requirements throughout the product life cycle. In general, these assignments involve prediction of engine performance characteristics, and analysis of engine ground and flight test data to determine system and component-level performance characteristics relative to expectations.

Responsibilities for this position will include:

- Engine Performance Analysis:
  - Engine cycle matching and off-design matching
  - System-level component analysis
  - Issuance of design and performance tables
  - Engine test data reduction and analysis
  - Simulation data calibration
  - Definition of engine performance schedules and engine retention prediction & analysis

- Engine Test Support:
  - Creation of pre-test predictions (simulation based)
  - Set up and validation of the test data reduction system (PDR)
  - Validation of instrumentation
  - Generation and coordination of test requirements with all engineering customers (PSA and Module Centers)
  - Definition and documentation of engine control trims required to support testing
✓ "First-pass" analysis of engine results
✓ Control room support
✓ Off-shift and weekend coverage of engine tests as required

Requirements:

- Bachelors of Science degree in Mechanical or Aerospace Engineering, or the equivalent
- 0 - 2+ years of successful experience in a technical assignment within an engineering function
- Have knowledge of computer programming such as FORTRAN or C.
- Experience with performance analysis or testing of high speed rotating equipment would be a plus
- Strong communication, organizational, and teaming skills required

Compensation:

- A competitive base salary is available, depending on the qualifications and experience of the candidate.
- This position qualifies for full benefits: medical insurance, dental, disability, life insurance, 401(K), tuition reimbursement, 2 weeks of paid vacation, and 10 paid holidays.