

Coherent Technical Services, Inc.

Excellence in technical services

Position Title:

Senior Principal Aerospace Engineer

Job Description:

CTSi has emerging opportunities for a Senior Principal Aerospace Engineer with recent experience in aircraft parameter identification using flight test data. Key competencies sought include the following:

- Flight test planning for aerodynamic parameter identification
- Flight test data processing
- Mathematical analysis of aerodynamic parameter identification algorithms
- Aerodynamic stability and control estimation using aerodynamic parameter estimates
- Flight simulation

Education:

MS in Aerospace Engineering. Candidates holding a BS in Aerospace Engineering will be considered with commensurate work experience.

Experience:

Three years experience for a candidate holding a BS degree.

Required Skills:

- Developing mathematical models of systems based on physical principles. Programming mathematical models in Matlab, Mathematica, and/or similar tools.
- Building numerical simulations using mathematical models in M-format, Simulink, or other simulation engines. Assessing time response characteristics from simulation data.
- Visualization using Matlab or other commercial 3D visualization tools.
- Processing of large flight test data sets using Matlab and/or custom programs.
- Extraction of physical parameter models from large flight test data sets.
- Desire to learn the System IDentification of Parameters for AirCRAFT (SIDPAC) toolset; to develop custom applications built on SIDPAC; and train others in their use.

Desired Skills:

- Experience using SIDPAC or similar tools in a flight test program.
- Effective communication and writing skills.
- Effective presentation skills for communicating technical information to internal and external customers
- Productive within a structured Systems Engineering process environment including a task oriented, value based management system.
- Ability to interact with multidisciplinary teams of system design professionals including electrical, mechanical, software and logistics engineers.
- Able to work with Business Development and Program Management to follow, assess and help win new programs.
- Be able to obtain a Secret Clearance.
- Interest, willingness, or skill in teaching and training new engineers.