

TITLE: Senior Design – Analysis Assistant		TKM-061
REPORTS TO LINE MANAGER: DDG of Tokamak Department		
GRADE RANGE: G4-G5		
DATE WRITTEN: MARCH, 2007	DATE REVISED:	DATE REVISED:

Purposes:

Working under the supervision of a professional engineer or analyst, help develop designs for mechanical systems and components. Prepare finite element meshes for stress, magnetic and thermohydraulic analysis. Develop digital data input (mainly related to component geometry) for analysis. To assist in setting up and maintaining computer based analysis data libraries.

Major Duties/Responsibilities:

- Preparing finite element meshes for stress, magnetic and thermohydraulic analysis.
- Develop digital data input (mainly related to component geometry) for analysis.
- Assist in setting up and maintaining computer based analysis data libraries.
- Definition of the input data and boundary conditions for various analyses.
- Performing of the relevant analyses and quick assessments.
- Preparation of the analysis reports and related Memos.
- Assist with the development of designs for mechanical systems and components, including model and 2D drawing checking, and assessment of tolerances and tolerance studies.
- Work with CAD designers during design and model preparation (including design improvement).
- With input from the technical staff, assist with the generation of technical reports and documents.
- Work in a multinational interdisciplinary project team and responsibility for maintaining the high quality standards of the design processes conducted by the ITER Team. He/She is expected to be able to work towards predefined goals with a high level of autonomy.

Qualifications and Experience:

- A minimum of 10 years experience in a similar position in a large multi-disciplinary project.
- Working knowledge of finite element codes.
- Working knowledge of CAD systems (particularly CATIA V5).
- Demonstrated ability to produce high quality results.
- Strong interpersonal skills to work effectively in an international environment.
- Excellent organizing skills and co-ordination skills will the ability to set priorities and meet deadlines.
- High level of reliability and dependability

- Excellent communication skills and capability to work towards department goals with a high level of autonomy.
- Previous experience in research area and/ or engineering project.
- Good knowledge of MS Word and Excel.
- Good active and passive knowledge of written and spoken English.

Work Direction and Interfaces:

- Report to the ITER Tokamak DDG.
- Interact on a daily basis with members of the ITER Magnet Division as well as external organizations.

Authority/Approval Levels:

- Has authority and approval levels generally defined by the Tokamak DDG for his/her scope of work.

Measures of Effectiveness:

- Provide efficient and high quality service to the ITER Tokamak DDG and division members
- Establish a good collaboration attitude with all members of the Tokamak department.

