TITLE: Technical Officer for Structural Analysis		PRO-052
REPORTS TO LINE MANAGER: Section Leader System Analysis Section; Project Office		
GRADE RANGE: G4-G5		
DATE WRITTEN: March 5, 2006	DATE REVISED:	DATE REVISED:

Purpose:
Support the System Analysis Section (SAS) of the Project Office (PO) in the preparation of finite element (FE) models, development of software or interface programs, and in performing structural analyses of ITER components following requirements and priorities defined by the PO management.

Major Duties/Responsibilities:
- Prepare finite element models of ITER components.
- Perform structural (mechanical and thermal) analyses for the verification of the integrity of the ITER components following requirements and priorities defined by the PO management and in support of requests from other divisions
- Develop programs, macros and software routines to interface programs for common use across the project.
- Develop and improve the interface of FE programs with CAD system.
- Prepare detailed and summary analysis reports.
- Contribute to the update and record of the FE model developed inside the ITER Organisation and by the DA's.

Qualifications Required:
- Some years of experience in the use of FE programs. Preference will be given to experience in the use of ANSYS and ANSYS Workbench.
- Knowledge of engineering aspects of the design and analysis of components.
- Capability of working in a team and interfacing with other groups and divisions.
- Openness to collaboration in a multi-disciplinary and multi-cultural environment.
- Fluent in English. A knowledge of the host language (French) would be an advantage.
- Possibility of staying in the project for more than 5 years.

Work Direction and Interfaces:
Report to the Leader of the SAS of the PO. Interface with all other ITER departments and divisions. Maintain communications with other organizations within the ITER collaboration.

Authority/Approval Levels:
Has authority and approval levels generally defined by the Head of Project Office for his/her scope of work.

Measures of Effectiveness:
- Successfully support the SAS in achieving the defined objectives.

- Provide comprehensive reports and summaries of the performed and revised analyses.
- Provide FE models developed for the analyses.
- Successfully generate and maintain trustworthy, up to date information related to the machine technical scope.
- Successfully maintain effective communications with all organizations interfacing with ITER.