

WBS pos. (n°)	Area	Title	Primary Scope	Priority Order
1.0.a	Tokamak Basic Machine	Mechanical Engineer	Support coordination of tokamak configuration management and general machine assembly	1
1.1.a	Magnets	Mechanical Engineer	Central Solenoid design completion (winding pack, insulation, precompression structures) and procurement specifications. Superconducting coils and epoxy -based insulation systems experience	
1.1.b	Magnets	Mechanical Engineer	Completion of structural design criteria and corresponding definition of structural quality assurance requirements, interface with finite element analysts. Structural analysis & design codes experience	1
1.1.c	Magnets	Thermo-hydraulic analyst	Simulations of conductor behaviour and margins, including AC losses, coil cooling systems and interfaces to cryoplant. Numerical analysis, electromagnetic and fluid flow calculations experience.	1
1.1.d	Magnets	Mechanical/ Electrical Engineer	Complete TF design (winding pack and insulation), complete the procurement specifications, follow required industrial R&D. Superconducting coils and epoxy -based insulation systems experience	1
1.1.e	Magnets	Cryogenic Engineer	Design and specification of the ITER coil auxiliary systems, including busbars, helium supplies and valving/manifolding, insulating breaks, current leads and coil instrumentation. Familiar with cryogenic and high voltage electrical aspects of superconducting coil operation	1
1.5.b	Vacuum Vessel	Mechanical Engineer	VV structural analysis: analysis for specific designs, final analysis and documentation for licensing	1
1.6.a	Blanket	Mechanical Engineer	Design and fabrication specification for the moveable limiter.	
1.6.b	Blanket	Mechanical Engineer	Design and fabrication specification for the FW/Shield of the port plugs	
2.1.b	Machine Layout in Pit/Galleries	Engineer	Configuration control of tokamak interface to building	1
2.2.a	Machine Assembly & Tooling	Engineer/Planner	Develop assembly schedule, and plan on-site installation including space allocation for temporary working and storage	
2.4.a	Cryostat	Mechanical Engineer	Design and construction of cryostat, development of technical specifications for procurements	1
2.6.a	Cooling Water System	Mechanical/ Plant System Engineer	Equipment and layout design of cooling water system and utilities	1
2.7.a	Thermal Shield	Engineer	Thermal shield design and fabrication, electromagnetic and structural analyses, and technical specifications	1

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3.2.a	Tritium Plant	System Engineer	Integration of the whole tritium plant, preparation of the design input for Preliminary Safety Report, optimization of system arrangement and components requirements, procurement specifications	1
4.5.b	CODAC	IT Engineer	Prepare specifications and interfaces for CODAC systems	1
5.1.a, 5.2.a	IC H&CD EC H&CD	Physicist	Coordinate R&D in ICRH/ECRH and design/interfaces of antennas. Monitor and promote LH area	
5.3.a	NB H&CD and DNB	Mechanical Engineer	Detailed definition of the procurement packages	1
5.6.a	Test Blankets	Nuclear Engineer	Coordinate with PT, TBM interfaces between machine, building & services	
6.0.a	Site and Facility	Plant Systems Engineer	Develop and manage overall construction project engineering schedule, including installation & construction, interfaces between civil work & facility equipment	1
6.0.b	Site and Facility	Civil Engineer	Design and development of construction documents, including preparation of technical procurement specifications for building structures, layout of equipment supports, hangers & penetrations, and for site layout & infrastructure	1
7.3.a	System Engineering and Analysis	Stress Analyst	Analysis to support urgent procurements Structural and seismic analysis of the ITER buildings and seismic pads Structural and seismic analysis of the cryostat structure and supports	
7.5.a	Configuration Management	Systems Engineer	Management of Design Issues and Changes, and Technical Web Site	1
7.6.b	Drawing Management	Senior CAD Engineer	Design Office Supervisor for Digital Mock-up and configuration control	1
7.7a	Document Management	Library Science+Engineer	Assist in organisation, storage, recovery, retrieval and archiving of all project documents in electronic and hard copy.	1
8.1.a	Fusion Nuclear Safety	Nuclear, Chemical Engineer	Interact with other groups/divisions of ITER design teams. RO for open safety issues and provide data for Safety Report	1
8.1.b	Fusion Nuclear Safety	Chemical, Nuclear Engineer	Source term evaluation (dust, tritium, corrosion products) during design and operation. Coordinate work of PTs. Solve open safety issues, identify and manage R&D, and provide the data needed in this field for the Safety Report.	1
8.1.c	Fusion Nuclear Safety	Nuclear, Chemical Engineer	Accident analysis including responsibility for coordinating research and design development dealing with dust/hydrogen explosion	1
8.2.a, 8.3.a	Occupational Safety Effluent & Waste	Nuclear Engineer/ Health Physicist	RO for health, operator radiological exposure, releases & waste. Contact person on health, releases, impact, ALARA and wastes. Solve open safety issues in design and provide data needed for Safety Report.	1
8.4.a	Safety Design and Assessment	Nuclear, Chemical Engineer	RO for licensing support activities and safety requirement in procurements. Support in C&S activities Assist the group leader in on-going key issues with high relevance to design	1

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8.5.a	Design Standards, Handbooks and Manuals	Engineer/ Mechanical Engineer	Assist in setting the appropriate codes and standards for design and procurements; work under C&S task force	1
9.1.f	Project Management	Legal expert	Provide DG and PDDG with advice on local, national and international legal matters, and advise on legal procedures.	
9.1.g	Project Management	Project Administrator	Establishment of the structure of the ITER organisation and support in the coordination of the Project Office under the responsibility of the PDDG.	
9.7.a	Public relations		Responsible for handling all aspects and arrangements for visits to the Cadarache site, preparation of PR building, etc.	
9.7.b	Public relations		Responsible for running the web-based ITER Project Newsletter	1