europass

Giuseppe Ramogida

Address: Via Enrico Fermi 45, 00044, Frascati, Italy

WORK EXPERIENCE

[03/2021 – Current] **Coordinator of the superconducting magnets area**

DTT Consortium (provisional assignment from ENEA)

City: Frascati
Country: Italy
Main activities and responsibilities:

- Coordination of the activities of ENEA and other DTT partners in the design and procurement of superconducting magnets
- Liaison with other design and procurement groups in DTT-Hall Work Package
- Planning of the activities for the superconducting magnets design and related tenders
- Coordination of the activities devoted to the conceptual physics design of the DTT Disruption Mitigation System

[01/2021 – Current] **Lead Engineer in the WPDIV-IDTT Project**

EuroFusion (partly provisional assignment from DTT Consortium)

City: Frascati
Country: Italy
Main activities and responsibilities:

- Coordination of the activities related to the design of the DTT in-vessel coils
- Definition of disruption scenarios and simulations

[01/2019 – 02/2021] **Coordinator**

DTT Consortium (provisional assignment from ENEA)

City: Frascati
Country: Italy
Main activities and responsibilities:

- Tender responsible officer for the procurement of the superconducting cables for DTT magnetic system
- Tender responsible officer for the procurement of CAD drawing services for DTT design
- Coordination of the workgroup carrying out EM and structural analyses for DTT vacuum vessel and in-vessel components
- Coordination of the service in charge of the design of the DTT in-vessel coils
- Coordination of the service in charge of the conceptual design of the DTT Disruption Mitigation System
- Member of the task force devoted to the preparation of documentation for DTT nuclear licensing

[2017 – 2018] **Task Coordinator in the DTT project**

ENEA Fusion Department – Via Enrico Fermi 45

Address: Frascati, Italy
Main activities and responsibilities:
- Coordination for the Management implementation
- Definition of plasma scenarios, including the evaluation of plasma loads during normal operation and off-normal events
- Disruption simulations with Maxfea code and evaluation of EM loads
- Contribution to issuing of the the documentation required for the licensing to operate the facility with respect to nuclear aspects

[2018 – 2020] **Activity Manager in the Eurofusion WP DTT1-ADC**

ENEA Fusion Department – Via Enrico Fermi 45

Address: Frascati, Italy
Main activities and responsibilities:
- Coordination of the tasks included to the Activity E-4 "Compatibility of I-DTT", devoted to liaise the assessment of the DEMO relevance of alternative magnetic configurations with the Italian national project I-DTT, maximising its compatibility with the EUROfusion plasma exhaust strategy from the point of view of engineering issues

[2014 – 2017] **Activity Manager in the EuroFusion WP DTT2**

ENEA Fusion Department – Via Enrico Fermi 45

Address: Frascati, Italy
Main activities and responsibilities:
- Coordination of the tasks includedto the Activity A2.5

[2014 – 2020] **ENEA Management representative in the Eurofusion WP PMI**

ENEA Fusion Department – Via Enrico Fermi 45

Address: Frascati, Italy
Main activities and responsibilities:
- Coordinator of ENEA and related Third Parties contributions to the Work Package PMI
- Principal investigator in the task on DEMO disruption physics and disruptivity analysis

[11/2000 – Current] **Researcher**

ENEA Fusion Department – Via Enrico Fermi 45

Address: Frascati, Italy
Main activities and responsibilities:
- Senior session leader for FTU tokamak operations
- Member of the task force for the Italian activities contributing to the JT60-SA design and manufacturing
- Member of the task forces for the design of the DTT, FAST, FT3 and Ignitor machines proposal
- Member of the task force for the scientific outreach of the FSN Department
- Scientific coordinator for the proposal and experiments devoted to achieve H-mode regimes in FTU
- Principal investigator or project leader in past Eurofusion and EFDA tasks (see following section)
- Technical responsible for several research contracts issued by ENEA (see following section)
- Lecturer in “Tokamak operations”, “Equilibrium codes”, “Magnetic diagnostics” and “Plasma scenario development” at the Universities of Rome “La Sapienza”, “Tor Vergata” and “Tuscia”

[1999 – 2000] **R&D engineer**

SIVA SpA

Address: Rome, Italy
Main activities and responsibilities:
- Coordinator of a small R&D team and management of research projects in the field of biometric identification and web-based applications

[1994 – 1999] **Software engineer**

SPE Srl

Address: Rome, Italy

EDUCATION AND TRAINING

[1993] **Degree in Physics**

Università "La Sapienza"

Address: Rome, Italy
Main subject / occupational skills covered:
- Solid state physics
- Nuclear and atomic physics
- UV and visible spectroscopy
- Radiation protection and dosimetry

PUBLICATIONS

Publications

Guest Editor for the Fusion Engineering and Design SOFT-2018 Special Issue

More than 100 papers, most in peer-reviewed journals, H-index=20
Source: google scholar

JOB-RELATED SKILLS

Job-related skills

Significant experience in:

■ Plasma disruption simulations and analysis with specific codes

■ Manufacturing of plasma facing components and study of copper alloys within the HRP laboratory in ENEA Frascati

■ Plasma engineering and design of standard and advanced magnetic configurations and scenarios

■ Design of tokamak machines, especially optimization of plasma chamber and magnetic field coils geometry

■ Evaluation of electromagnetic loads in tokamak machines, especially in plasma chamber, coils, divertor and in-vessel components (by mean of Comsol, Ansys and Maxwell codes)

■ Development of codes for the evaluation of electromagnetic loads and the plasma boundary identification and control

Study of plasma facing components based on liquid metals

Relevant skills: strong experience in evaluation of EM loads in existing machines as well in next DEMO or DTT facilities, proven knowledge of FEM codes (Ansyss) and plasma evolution codes, strong experience in plasma magnetic modelling including VDEs and disruptions, wide knowledge in tokamak design, proven background in plasma position and shape control;

Relevant experience: coordination of activities on compatibility of I-DTT with ADCs developed for DEMO, wide involvment in the integration of physics and engineering teams in the DTT design activities, experience as session leader in FTU operations."