

Position
Physicist – Experimental/Diagnostics profile

Title

Physicist – Experimental/Diagnostics profile

Minimum requirement

Master's degree in Physics or Engineering

Competence group

Experimental physics group

Scope of the group's expertise

Participation in experimental campaigns at the ITER Neutral Beam Test Facility.
Development of diagnostics for plasmas and fusion-relevant systems; data analysis and development of codes for data interpretation and plasma parameter reconstruction.

Duties and responsibilities

- Participate in experimental campaigns, including shift work;
- Develop data visualization and analysis tools and contribute to fully exploiting their capabilities;
- Take responsibility for specific systems, plants, or study topics as assigned by the Project Leader;
- Contribute to the development of new diagnostic tools and optimization of existing ones;
- Contribute constructively to the physics program of the project through integrated analysis of one or more diagnostic data sets, supported by modeling activities.

Preferred requirements

- Previous experience in developing diagnostics, preferably electrical or optical, for low-temperature plasmas;
- Good knowledge of programming languages such as IDL, Python, LabVIEW;
- Experience in optimizing electrical signals in environments heavily affected by electromagnetic interference (EMI);
- PhD in one of the disciplinary areas required for the Master's degree.

Contract type

Fixed-term position: 2-year contract, renewable