

Senior Coordinator for the Prospective R&D

Job Description

The aim of the Prospective R&D (PRD) Senior Coordinator role is to shape, organize and follow up the work within the Work Package “Prospective R&D” (WP PRD).

WP PRD encompasses technology R&D lines, which are currently not part of the DEMO baseline, but could become important either for DEMO or for a subsequent commercial Fusion Power Plant (FPP), or provide supporting analysis / simulation. Such technology developments must either provide risk mitigation for DEMO (i.e., in areas where there is a non-negligible risk that the baseline approach(es) will not, or not alone, translate into a viable solution), or address the gap between DEMO and an FPP, or – potentially - allow more attractive solutions for an FPP than the DEMO baseline (Roadmap Mission 7 – Competitive cost of electricity). Supporting analysis / simulation will provide code developments orienting the development towards an FPP, can however also give direct feedback for DEMO baseline evolution.

While the focus of technology development in PRD will be on performance enhancement, readiness levels (technology, integration, manufacturing) will at least have to be monitored, and potential validation in DEMO will have to be observed. The focus of supporting analysis & simulation will be on the enhancement of predictive capabilities by code development, not neglecting, however, possibilities for validation, and deriving specific recommendations to be defined in advance.

Main Responsibilities

- Work with the FTD (Department Head and WP Leaders) to identify gaps between DEMO and a fusion power plant, and R&D programmes to address them;
- Identify general technical and project/programme risks, and propose risk mitigation measures.
- Organize calls for participation and leadership of topics identified to be addressed in WP PRD;
- Define, together with the Area Leaders and Topic Leaders in WP PRD, the overall targets and milestones as well as the annual work programme and deliverables in each of the PRD Topics;
- Monitor, together with the PRD Area Leaders, progress on an annual basis, and approve deliverables on the basis of the review by the PRD Area Leaders;
- Organize the bi-annual DEMO Programme Workshop, as an internal review and status overview on the entire DEMO / reactor programme to the entire EUROfusion community, addressing both the DEMO baseline and the PRD work, and on this basis, organize re-adjustments both inside PRD and among PRD and the baseline;
- Observe international fusion technology developments, including potential alternative innovative solutions, and their potential impact on EUROfusion;
- Propose, if appropriate, new lines of PRD, for consideration by the PM and Department Heads (finally subject to approval by the GA);
- Manage PRD research resources and interact with the Programme Management Office as needed;
- Coordinate the preparation of annual reports for the Programme Manager and STAC, and EUROfusion grant deliverable reports.

Required skills and competencies

- MSc or PhD degree in Physics or Engineering or related areas;
- Proven technical scientific competence and experience in the field;
- Proven project or programme coordination experience;
- Broad understanding of design and technologies of fusion reactor systems;

Programme Management Unit (PMU): Fusion Technology Department (FTD)

- Strong experience in working with a diverse range of senior stakeholders and external partners;
- Ability to work effectively both independently and as part of a team;
- Good interpersonal skills to help resolve difficult issues when they arise;
- Excellent written and verbal communication skills in English.

The Senior Coordinator for the Prospective R&D will be based in Garching, Germany and will report to the Head of the Fusion Technology Department.

Date of Job Vacancy: January 1st, 2021

Application Deadline: October 19, 2020

The applicant will ideally already have a work contract with a EUROfusion Beneficiary and will be seconded to the EUROfusion Programme Management Unit (PMU) in Garching. Otherwise, she/he will have to secure a work contract with one of the Beneficiaries, to be seconded to the PMU in Garching.

The EUROfusion secondment will run until the end of the Horizon Europe framework period (31 December 2027), but the actual labour contract might be subject to the rules, regulations and conditions of the Beneficiary that employs the applicant.

EUROfusion strives for diversity and inclusion, and explicitly encourages members of minority groups, and females, to apply for this position.

In case the candidate is shortlisted, the interviews will take place by the end of October.

Please have your completed application including CV, cover letter and examples of your past-related work experience sent through your GA member/HoRU to: anne.graebner@euro-fusion.org.

CONTACT: Gianfranco Federici

Tel: + 49 (0)89 3299 4228

E-mail: gianfranco.federici@euro-fusion.org