ITER Physics Work Packages

ANNUAL WORK PLAN 2016 & WORK PLAN 2017-2018

CALL RESPONSE FORM for the Work Package

WPMST2: Preparation of exploitation of MSTs

# IDENTIFICATION

|  |  |
| --- | --- |
| **Work Package ID** | WP16-IPH-MST2 |
| **BENEFICIARY** | Beneficiary Name |
| **CONTRACTUAL CONTACT PERSON** | Name / Email / Phone |
| **TECHNICAL CONTACT PERSON** | Name / Email / Phone |

# REFERENCED DOCUMENTS

The following documents provide descriptions for the technical content, key deliverables, milestones, foreseen facilities, opportunities for industrial innovation and training/development opportunities for each Work Package. It is essential that the relevant sections are considered before completing this Call for Participation:

|  |  |
| --- | --- |
|  | ***Document Title*** |
|  | GRANT AGREEMENT, ANNEX 1: WORK PLAN FOR THE IMPLEMENTATION OF THE FUSION ROADMAP IN 2014-2018 |
|  | ANNUAL WORK PLAN 2016 |

# INTRODUCTION

This document is to be used in order for a Beneficiary to respond to the EUROfusion Call for Participation in Work Plan 2014 – 2018 [1], particularly for the Annual Work Plan 2016 [2]. It should be clarified that, this call only relates to work that does not involve the continuation of work using competencies within the existing Work Package team. **In filling out the sections below, the Beneficiaries shall restrict themselves to the additional activities indicated.**

The purpose of this document is:

* To set out the required roles and associated competencies that are foreseen in order to execute the Project and to help the Project/Task Force Leader with planning.
* To allow Beneficiaries to indicate where they have appropriate resources and competences.
* To allow Beneficiaries to indicate a proposed resource level in professional-person-years per year (ppy/y) in 2016 and their interest and potential contributions to the Work Plan 2017-2018.

Please note that no provision for allocation of mission resources is made in the present Call. These will be allocated as detailed in the Project Management Plan (PMP). However, each Beneficiary may fill the box at the end of this document to include its comments on the envisaged needs concerning missions for participation in this Work Package.

# GUIDANCE NOTES FOR SUBMISSION OF THE RESPONSE TO THE CALL

The following notes describe the procedure for completing this document:

1. Fill in the appropriate information in the Identification table in section 1.
2. Read the relevant sections (see section 2) of the Work Plan 2014-2018 and Annual Work Plan 2016.
3. In section 5:
   1. Indicate the appropriate human resources and competences available within your Beneficiary to participate in the Work Plan 2016. The salary levels of those proposed should also be stated. (section 5.1)
   2. if foreseen give a list of subcontractors (section 5.2)
   3. supply names and contact details of potential contributors from your Beneficiary (section 5.3)
   4. indicate proposed support for hardware but also procurements or use of facilities
4. In section 6, indicate your interest and potential contributions to the Work Plan deliverables for 2017-2018, including the estimates for ppy and the salary levels of those proposed.
5. In section 7, quote up to 5 publications in the field relevant for the Work Package published by your Beneficiary
6. In section 8, give any additional comments or describe requirements your Beneficiary would like to express and that are necessary to contribute to this Work Package.
7. In section 9, describe your proposed project(s) following the format indicated.

# DESCRIPTION OF INSTITUTION’S PARTICIPATION IN 2016 WORK PLAN

### 5.1 Personnel

Briefly describe the relevant competences of the proposed staff and their experience relevant for the **deliverables in 2016 Work Plan.** The particular staff members expected to participate in the work package may be indicated. Briefly describe any additional support the institution or the candidate's research group can provide or other related activities that may strengthen the proposal.

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| --- | --- | --- | --- |
| **Projects required for this Work Package** | | **Brief description of relevant competences and experience (max. 200 words)** | **Salary level and ppy 2016[[1]](#footnote-1)** |
| **Project Name** | **Description** |
| WP16-MST2-A:  *Implementation of divertor Thomson scattering on AUG* | Provide reliable space and time resolved measurements of the electron temperature and density in AUG divertor |  |  |
| WP16-MST2-B:  *Implementation of edge and divertor diagnostics on MAST-U* | Work in preparation of upcoming EUROfusion MST1 operation on MAST-U (magnetics, Langmuir probes and infrared measurements ) |  |  |
| WP16-MST2-C:  *Conceptual design for a divertor ion temperature diagnostic on MST* | Design of the diagnostic in support of the Mission 2, capable of reliable measurements of the ion temperature in a MST divertor with acceptable temporal and space resolution |  |  |
|  |  | **TOTAL** |  |

### 5.2 List of proposed activities to subcontract

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### 5.3 Indicative list of potential contributors

List potential contributors (members of your Beneficiary) to be involved in this Work Package. Give details of at least one person who can act as a contact person for the Project Leader.

|  |  |  |  |
| --- | --- | --- | --- |
| **Project** | **Name** | **Email** | **Phone Number** |
| WP16-MST2-A:  Implementation of divertor Thomson scattering on AUG | Contact Person: |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| WP16-MST2-B:  Implementation of edge and divertor diagnostics on MAST-U | Contact Person: |  |  |
|  |  |  |
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|  |  |  |
| WP16-MST2-C:  Conceptual design for a divertor ion temperature diagnostic on MST | Contact Person: |  |  |
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# EXPRESSION OF INTEREST IN FUTURE WORK PLAN 2017-2018

### 6.1 Personnel

In the areas of the new activities indicated above, please indicate your interest and potential contributions to the future Work Plan 2017-2018 deliverables, including the indicative ppy envisaged. Describe the additional support the institution or the candidate's research group can provide or other related activities that may strengthen the activity in the future.

|  |  |  |  |
| --- | --- | --- | --- |
| **Project** | **Indicative human resource budget profile (Salary level and ppy)** **[[2]](#footnote-2)** | | |
| **2017** | **2018** | **2016-2018 TOTAL** |
| WP16-MST2-A:  Implementation of divertor Thomson scattering on AUG |  |  |  |
| WP16-MST2-B:  Implementation of edge and divertor diagnostics on MAST-U |  |  |  |
| WP16-MST2-C:  Conceptual design for a divertor ion temperature diagnostic on MST |  |  |  |
| **Total** |  |  |  |

### 6.2 Hardware description

Please indicate the expected hardware support requests and associated costs to achieve Work Package deliverables in the Work Plan 2014-2018.

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| --- | --- | --- | --- | --- |
| **Project** | **Indicative list of hardware, procurements and use of facilities** | **Indicative budget profile (kEUR) [[3]](#footnote-3)** | | |
| **2017** | **2018** | **2016-2018 TOTAL** |
| WP16-MST2-A:  Implementation of divertor Thomson scattering on AUG |  |  |  |  |
| WP16-MST2-B:  Implementation of edge and divertor diagnostics on MAST-U |  |  |  |  |
| WP16-MST2-C:  Conceptual design for a divertor ion temperature diagnostic on MST |  |  |  |  |
| **Total** |  |  |  |  |

**Brief outline of available facilities and justification of spending profile (max. 200 words):**

# Summary of relevant publications

Please indicate the publications most relevant for this Work Package, up to a maximum of 5, published by your Beneficiary in the last 5 years.

|  |  |  |
| --- | --- | --- |
| **Title** | **Author(s)** | **Year of Publication** |
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# ADDITIONAL COMMENTS AND REQUIREMENTS

Please add, if necessary, additional comments or describe requirements your Beneficiary would like to express and that are necessary to contribute to this Work Package.

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| --- |
| See the comments under section 6.1. Individuals are not named at this stage. |

# DESCRIPTION OF THE PROPOSED PROJECTS.

Please find below a template structure in order to describe further your project proposal(s). **Each project proposal** shall be a maximum of two pages in length. For proposals for projects involving two or more Research Units, each Research Unit should answer to this call using the same name and description clearly stating the responsibility of each Research Unit.

### 9.1 Description of the proposal for project WP-MST2-X

#### a. Title

Give a one line title

#### b. Research Units involved

List all of the Research Units participating

#### c. Work description and deliverables (per year if multiyear project is foreseen)

For each year if multiyear projects are foreseen give:

- A work description (give details of activities involved, hardware, breakdown of work between Research Units. Note two page limit)

- Deliverables (in line with the Work Programme 2016)

#### d. Foreseen Travel involved

1. To also include resources made available by Linked Third Parties or Third Parties providing in-kind contribution [↑](#footnote-ref-1)
2. To also include resources made available by Linked Third Parties or Third Parties providing in-kind contribution [↑](#footnote-ref-2)
3. To also include resources made available by Linked Third Parties or Third Parties providing in-kind contribution [↑](#footnote-ref-3)